

Components

PCB Terminal Blocks
Interconnection
Fuses & Fuseholders
LED's and Indicators
Miniature Switches
Limit & Safety Switches
Control Products
Interface Modules & Supports
Relay Bases
Enclosures
Batteries
Transformers

CAMDENBOSS
ELECTRONICS & ENCLOSURES



CamdenBoss provides performance engineered electro-mechanical components and enclosure solutions to industries throughout the world; offering design, engineering and production within a totally customer-focused environment to fully support our global customers.

Delivering an extensive range of innovative and cost effective electro-mechanical components, electronic & electrical housings and 19" cabinet solutions. CamdenBoss capitalises on over 40 years of experience serving the Electronics and Electrical industries. CamdenBoss are proud to supply more than 25% of the UK PCB Terminal Block market and offer products ranging from 2.54mm-10.16mm pitch, 4A-57A rated, in an extensive selection of styles providing a PCB or interconnection solution for most applications.

Completing the electro-mechanical components range are fuses & fuseholders, batteries, LEDs, indicators, miniature, limit & safety switches, DIN Rail mounted Interface Modules, control products and transformers.

Enclosures are available in a range of universal housings, handheld, diecast, potting, desktop, instrument and DIN Rail enclosures. A comprehensive customisation service offers custom colours, surface coating, RFI shielding, engraving, silk-screening, digital printing, labels & membrane keypads. Short lead times are always available and customisation of connectors and components with machining & digital printing to specific requirements is always available.

Customers can have unique enclosures designed, prototyped and manufactured to their exact specifications with rapid lead-times using our tool-free flat sheet plastic technology, **FSPT**. This is an innovative solution for unique enclosure requirements that can be manufactured without the expensive tooling costs historically associated with bespoke designs. For medium and high volume requirements CamdenBoss offer the complete product design and manufacturing solution, including 3D modeling, tooling, high volume UK & Asia production moulding, manufacturing, assembly and packaging.

We hope you enjoy selecting products from this CamBlock Terminal Block catalogues. Please see our Enclosure Catalogues for our extensive range of housings, enclosures & cabinets, and our Components Catalogues for a wide range of electromechanical products.

WELCOME TO OUR **COMPONENTS** CATALOGUE

Along with over 110 ranges of Terminal Blocks which boasts one of the most comprehensive ranges to satisfy today's demanding market, you will find increased ranges of Fuses & Fuse-holders, Miniature Switches and Interconnection products. We hope you will be delighted with our fantastic new and exciting range of LEDs, Transformers, and Control Products. All CamdenBoss components offer the latest market requirements, manufactured and assembled to the highest quality in the UK, Europe and China, all offered with competitive pricing.

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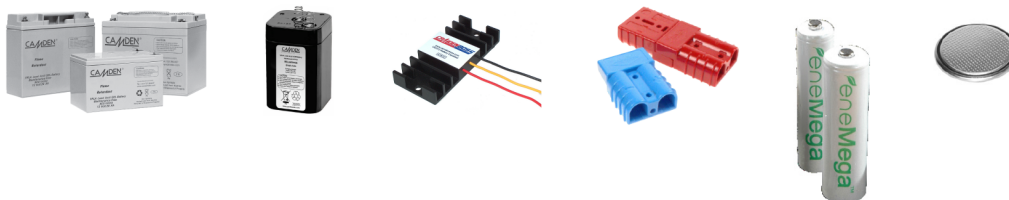
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PCB TERMINAL BLOCKS

STANDARD PCB TERMINAL BLOCKS

3.5mm Pitch

Ultra Low Profile Commercial Screw
Ultra Low Profile Rising Clamp
Ultra Low Profile 90° Rising Clamp

CTB3051 p8
CTB0305 p9
CTB0355 p9

3.81mm Pitch

Ultra Low Profile Rising Clamp
Ultra Low Profile 90° Rising Clamp

CTB0308 p10
CTB0358 p10

5mm Pitch

Low Profile Screw
Low Profile 90° Screw
Commercial Low Profile Screw
Low Profile Rising Clamp
Low Profile 90° Rising Clamp
Low Profile 45° Rising Clamp

CTB5000 p11
CTB5050 p11
CTB55VG p12
CTB0500 p13
CTB0550 p13
CTB3000 p14

Standard Profile Screw
Standard Profile 90° Screw
Commercial Standard Profile Screw
Standard Profile Rising Clamp
Standard Profile 90° Rising Clamp

CTB1000 p14
CTB1050 p15
CTB1500 p15
CTB0100 p16
CTB0150 p16

High Power Rising Clamp
High Power 90° Rising Clamp

CTB7000 p17
CTB0750 p17

36 Pole Rising Clamp
36 Pole 90° Rising Clamp
Horizontal Access Inline Screw
Large Cable Entry Rising Clamp
Large Cable Entry 90° Rising Clamp
Double Decker Rising Clamp
Low Profile Double Decker Rising Clamp

CTB0700 p18
CTB7050 p18
CTB90VG p19
CTB09VG p20
CTB09HG p20
CTBDDVG p21
CTBDD2VG p21

5.08mm Pitch

Low Profile Rising Clamp
Low Profile 90° Rising Clamp
Low Profile 45° Rising Clamp
Standard Profile Rising Clamp
Standard Profile 90° Rising Clamp
High Power Rising Clamp
High Power 90° Rising Clamp

CTB0508 p22
CTB0558 p22
CTB3008 p23
CTB0108 p24
CTB0158 p24
CTB0708 p25
CTB0758 p25

7.5mm Pitch

Triple Decker
Commercial Low Profile Screw
Standard Profile Rising Clamp
Standard Profile 90° Rising Clamp
High Power Rising Clamp
High Power 90° Rising Clamp

CTBTDVJ p26
CTB55VK p27
CTB0110 p28
CTB0115 p28
CTB07VK p29
CTB07HK p29

7.62mm Pitch

Standard Profile Rising Clamp
Standard Profile 90° Rising Clamp
High Power Rising Clamp
High Power 90° Rising Clamp

CTB0118 p30
CTB01HL p30
CTB07VL p31
CTB07HL p31

10mm Pitch

Low Profile Screw
Low Profile 90° Screw
Low Profile 45° Rising Clamp
Commercial Low Profile Screw
Standard Profile Screw
Standard Profile 90° Screw
Commercial Standard Profile Screw

CTB6000 p34
CTB6050 p34
CTB4000 p35
CTB55VN p35
CTB2000 p36
CTB2050 p36
CTB2500 p37

18 Pole Rising Clamp
18 Pole 90° Rising Clamp

CTB8000 p38
CTB8050 p38

10.16mm Pitch

Very High Power

CTB77VP p39

POWER TERMINALS

6.35mm Pitch

High Power Rising Clamp

CTB04VY p27

9.52mm Pitch

High power Rising Clamp

CTB04VZ p32

PLUGGABLE (Male-Female Connectors)

3.5mm Pitch

Pluggable Rising Clamp

Female Connector
PCB Mounting Male Vertical (closed)
PCB Mounting Male Horizontal (closed)

CTB92HD p41
CTB93VD p41
CTB93HD p41

3.81mm Pitch

Pluggable Rising Clamp

Female Connector
Female Connector Vertical (standard)
Female Connector (reversed)
PCB Mounting Male Vertical (closed)
PCB Mounting Male Horizontal (closed)
PCB Mounting Male Double Decker (Vertical)
PCB Mounting Male Double Decker (Horizontal)

CTB92HE p42
CTB92VE/S p42
CTB92VE/R p42
CTB93VE p43
CTB93HE p43
CTBDD93VE p43
CTBDD93HE p43

PCB
TERMINAL
BLOCKS

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PCB TERMINAL BLOCKS

5mm Pitch

Pluggable Rising Clamp

Female Connector	CTB9200	p44
Female Connector Certical (standard)	CTB92VG/S	p44
Female Connector (reversed)	CTB92VG/R	p44
PCB Mounting Male Vertical (closed ended)	CTB9300	p45
PCB Mounting Male Horizontal (closed ended)	CTB9350	p45
PCB Mounting Male Vertical (open ended)	CTB9300/AO	p45
PCB Mounting Male Horizontal (open ended)	CTB9350/AO	p45
Vertical	CTBDD93VG	p49
Horizontal	CTBDD93HG	p49

PCB Mounting Male Double Decker

Top Entry Pluggable

Vertical	CTB92TG	p52
Flanged Vertical	CTB92TG/FL	p52
Female Connector	CTBA9200/FL	p58
PCB Mounting Male Vertical	CTBA9300/FL	p58
PCB Mounting Male Horizontal	CTBA9350/FL	p58

Pluggable Rising Clamp with Screw Flanges

5.08mm Pitch

Pluggable Rising Clamp

Female Connector	CTB9208	p46
Female Connector vertical (standard)	CTB92VJ/S	p46
Female Connector (reversed)	CTB92VJ/R	p46
PCB Mounting Male Vertical (closed ended)	CTB9308	p47
PCB Mounting Male Horizontal (closed ended)	CTB9358	p47
PCB Mounting Male Vertical (open ended)	CTB9308/AO	p47
PCB Mounting Male Horizontal (open ended)	CTB9358/AO	p47

Panel Mounting Terminal Block

PCB Mounting Male Double Decker

CTBA9308/P	p48
CTBDD93VJ	p49
CTBDD93HJ	p49

PCB Mounting Female Plugs

Vertical	CTB97VJ	p50
Horizontal	CTB97HJ	p50
Flanged Vertical	CTB97VJ/FL	p51
Flanged Horizontal	CTB97HJ/FL	p51

Top Entry Pluggable

Vertical	CTB92TJ	p52
Flanged vertical	CTB92TJ/FL	p52
Female Connector	CSTB9208	p53
Male Connector	CSTB9308	p53
Female Connector	CTBA9208/FL	p59
PCB Mounting Male Vertical	CTBA9308/FL	p59
PCB Mounting Male Horizontal	CTBA9358/FL	p59

Screwless Pluggable

Pluggable Rising Clamp with Screw Flanges

7.5mm Pitch

Pluggable Rising Clamp

Female Connector	CTB9400	p54
PCB Mounting Male Vertical (closed ended)	CTB9500	p54
PCB Mounting Male Horizontal (closed ended)	CTB9550	p54
PCB Mounting Male Vertical (open ended)	CTB9500/AO	p55
PCB Mounting Male Horizontal (open ended)	CTB9550/AO	p55

7.62mm Pitch

Pluggable Rising Clamp

Female Connector	CTB9408	p54
PCB Mounting Male Vertical (closed ended)	CTB9508	p54
PCB Mounting Male Horizontal (closed ended)	CTB9558	p54
PCB Mounting Male Vertical (open ended)	CTB9508/AO	p55
PCB Mounting Male Horizontal (open ended)	CTB9558/AO	p55

10.16mm Pitch

Pluggable Rising Clamp

Female Connector	CTB92HP	p56
Female Connector Vertical (standard)	CTB92VP/S	p56
Female Connector Vertical (reversed)	CTB92VP/R	p56
PCB Mounting Male Vertical (closed ended)	CTB93VP	p57
PCB Mounting Male Horizontal (closed ended)	CTB93HP	p57
PCB Mounting Male Vertical (open ended)	CTB93VP/AO	p57
PCB Mounting Male Horizontal (open ended)	CTB93HP/AO	p57

PLUGGABLE (Via header pins)

5mm Pitch

Pluggable for Vertical or 90° mounting Screw

24 Pin Strip Header

10mm Pitch

Pluggable for Vertical or 90° mounting Screw

12 Pin Strip Header

PLUGGABLE (Blades, verical or 90°)

5mm Pitch

Pluggable for Vertical or 90° mounting Rising Clamp

Female Connector	CTB7300/F	p62
PCB Mounting Male	CTB7300/M	p62
Polarising Clips	CTB7300/C	p62

10mm Pitch

Pluggable for Vertical or 90° mounting Rising Clamp

Female Connector	CTB8300/F	p63
PCB Mounting Male	CTB8300/M	p63
Polarising Clips	CTB7300/C	p63

SCREWLESS TERMINAL BLOCKS

Screwless (Various pitches 5-10.16mm)

Screwless Vertical Actuator 45° (Various pitches 3.5-7.62mm)

Screwless 45° (5.08 & 10.16mm)

Screwless Top Entry (5.08 & 10.16mm)

Screwless (2.5mm)

CSTBV	p64
CSTB45V	p65
CSTB	p65
CSTBV23	p66
CSTBA45VC	p67
CTB92C	p40
CTB93C	p40

POLARISING KEY FOR PLUGGABLE TERMINAL BLOCK



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our products are subject to change without notice.

Ver 1.1

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PCB TERMINAL BLOCKS

3.5mm Pitch Ultra Low Profile Commercial Screw Terminal Blocks

- Ultra low profile
- 2-12 pole interlocking
- UL94-V0 flame retardant PA66
- Double interlock mechanism for increased strength
- 0.2-0.8mm² (24-18AWG) solid and stranded cable
- Anti solder wicking terminals
- Captive screws
- Guided pin alignment
- Standard colour black.
- Other colours available
-  us approved

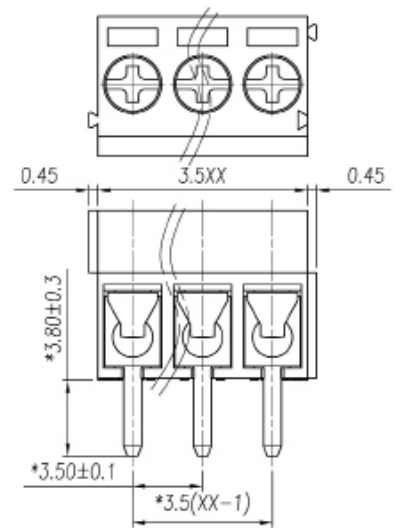
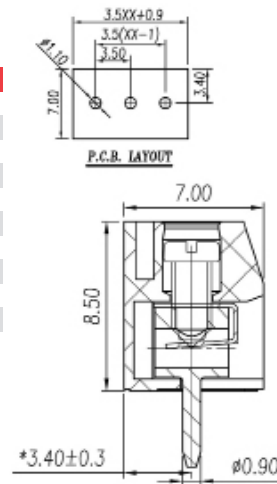
CTB3051



SPECIFICATION

Rating	10A/300V
Dielectric strength	≥2kV
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tin plated brass
Wire protector	Phosphor bronze, nickel plated
Screw/Torque	M2 steel zinc plated, 0.2Nm max
Recommended PCB hole size	ø1.1mm

TYPE NO.	POLES	LENGTH
CTB3051/2BK	2	7mm
CTB3051/3BK	3	10.5mm
CTB3051/4BK	4	14mm
CTB3051/5BK	5	17.5mm
CTB3051/6BK	6	21mm
CTB3051/7BK	7	24.5mm
CTB3051/8BK	8	28mm
CTB3051/9BK	9	31.5mm
CTB3051/10BK	10	35mm
CTB3051/11BK	11	38.5mm
CTB3051/12BK	12	42mm



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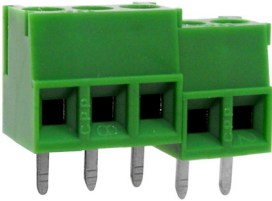
TRANS-
FORMERS

PCB TERMINAL BLOCKS

3.5mm Pitch Ultra Low Profile Rising Clamp Terminal

- 2-12 pole interlocking
- 4-12 pole pre-assembled
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm² (30-16AWG) solid cable
- 0.2-1.0mm² (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

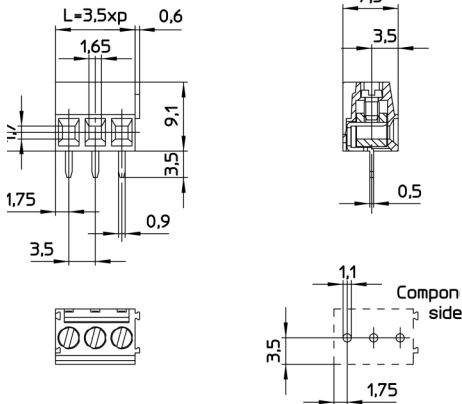
CTB0305



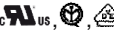
TYPE NO.	POLES	LENGTH
CTB0305/2	2	7mm
CTB0305/3	3	10.5mm
CTB0305/4	4	14mm
CTB0305/5	5	17.5mm
CTB0305/6	6	21mm
CTB0305/7	7	24.5mm
CTB0305/8	8	28mm
CTB0305/9	9	31.5mm
CTB0305/10	10	35mm
CTB0305/11	11	38.5mm
CTB0305/12	12	42mm

SPECIFICATION

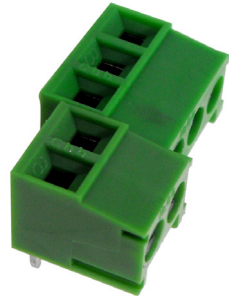
Rating	10A/160V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising Clamp	Tinned, nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



3.5mm Pitch Ultra Low Profile 90° Rising Clamp Terminal

- 2-12 pole interlocking
- 4-12 pole pre-assembled
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm² (30-16AWG) solid cable
- 0.2-1.0mm² (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

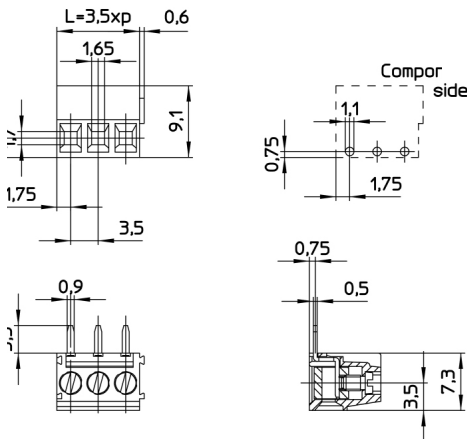
CTB0355



TYPE NO.	POLES	LENGTH
CTB0355/2	2	7mm
CTB0355/3	3	10.5mm
CTB0355/4	4	14mm
CTB0355/5	5	17.5mm
CTB0355/6	6	21mm
CTB0355/7	7	24.5mm
CTB0355/8	8	28mm
CTB0355/9	9	31.5mm
CTB0355/10	10	35mm
CTB0355/11	11	38.5mm
CTB0355/12	12	42mm

SPECIFICATION

Rating	10A/160V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



PCB TERMINAL BLOCKS

3.81mm Pitch Ultra Low Profile Rising Clamp Terminal Blocks

PCB
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INDICATORS

MINIATURE
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SUPPORTS

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BASES

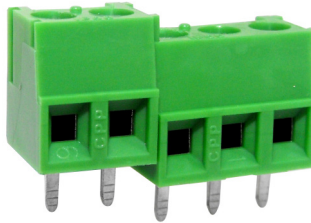
ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 2-3 pole Interlocking
- 4-12 pole solid block
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm² (30-16AWG) solid cable
- 0.2-1.0mm² (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

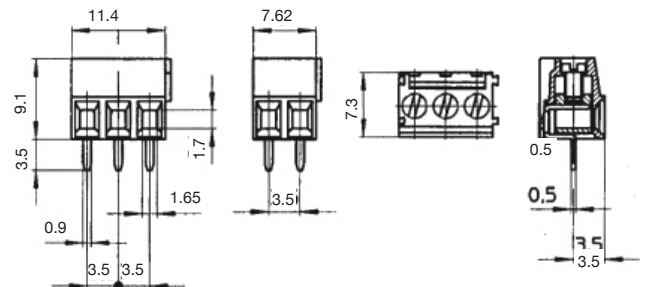
CTB0308



TYPE NO.	POLES	LENGTH
CTB0308/2	2	7.62mm
CTB0308/3	3	11.4mm
CTB0308/4	4	15.2mm
CTB0308/5	5	19.1mm
CTB0308/6	6	22.9mm
CTB0308/7	7	26.7mm
CTB0308/8	8	30.5mm
CTB0308/9	9	34.3mm
CTB0308/10	10	38.1mm
CTB0308/11	11	41.9mm
CTB0308/12	12	45.7mm

SPECIFICATION

Rating	10A/130V UL=10A, IMQ=10A, VDE=10A
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



3.81mm Pitch Ultra Low Profile 90° Rising Clamp Terminal Blocks

- 2-12 pole interlocking
- 4-12 pole solid block
- Ultra low profile
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.5mm² (30-16AWG) solid cable
- 0.2-1.0mm² (30-16AWG) stranded cable
- Captive screws
- Guided pin alignment
- Double interlock mechanism for increased strength
-  approved

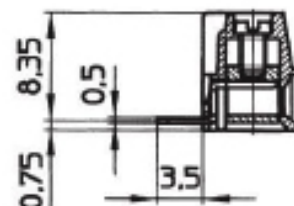
CTB0358



TYPE NO.	POLES	LENGTH
CTB0358/2	2	7.6mm
CTB0358/3	3	11.4mm
CTB0358/4	4	15.2mm
CTB0358/5	5	19.1mm
CTB0358/6	6	22.9mm
CTB0358/7	7	26.7mm
CTB0358/8	8	30.5mm
CTB0358/9	9	34.3mm
CTB0358/10	10	38.1mm
CTB0358/11	11	41.9mm
CTB0358/12	12	45.7mm

SPECIFICATION

Rating	10A/130V UL=10A/300V, VDE&IMQ=10A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.1mm



For other dimensions see CTB0308

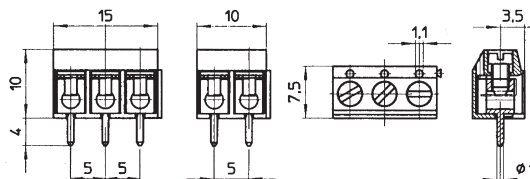
5mm Pitch Low Profile Screw Terminal Blocks

- CTB5000**

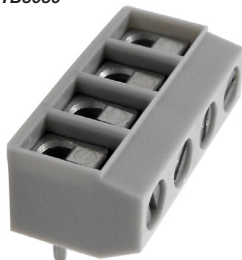


TYPE NO.	POLES	LENGTH
CTB5000/2	2	10mm
CTB5000/3	3	15mm
CTB5000/4	4	20mm
CTB5000/5	5	25mm
CTB5000/6	6	30mm
CTB5000/7	7	35mm
CTB5000/8	8	40mm
CTB5000/9	9	45mm
CTB5000/10	10	50mm
CTB5000/11	11	55mm
CTB5000/12	12	60mm

Rating	13.5A/250V UL=14A/300V, VDE&IMQ=13.5A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.1mm

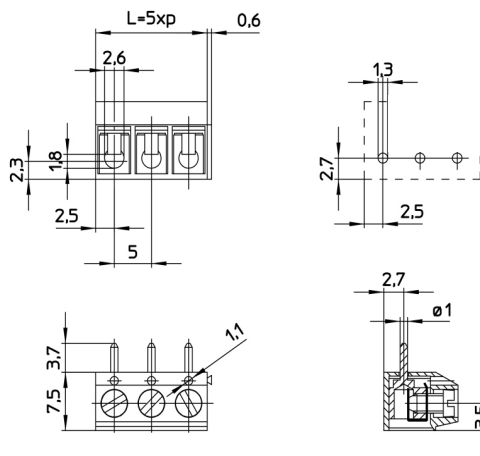


- 2 & 3 pole interlocking
- 4-12 pole solid block
- Test probe facility
- 90° Mounting
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm² (30-14AWG) solid cable
- 0.5-1.0mm² (30-14AWG) stranded cable
- Anti solder wicking terminal
- Guided pin alignment
- approved



TYPE NO.	POLES	LENGTH
CTB5050/2	2	10mm
CTB5050/3	3	15mm
CTB5050/4	4	20mm
CTB5050/5	5	25mm
CTB5050/6	6	30mm
CTB5050/7	7	35mm
CTB5050/8	8	40mm
CTB5050/9	9	45mm
CTB5050/10	10	50mm
CTB5050/11	11	55mm
CTB5050/12	12	60mm

Rating	13.5A/250V UL=14A/300V, VDE&IMQ=13.5A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.1mm



PCB TERMINAL BLOCKS

5mm Pitch Commercial Low Profile Screw Terminal Blocks

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FUSE-
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LEDs &
INDICATORS

MINIATURE
SWITCHES

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SWITCHES

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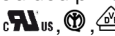
INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

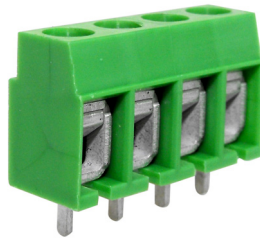
ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 2-12 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardant PA
- Wire protector terminals
- 0.5-4.0mm² (30-12AWG) solid cable
- 0.5-2.5mm² (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-  approved

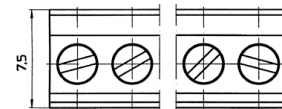
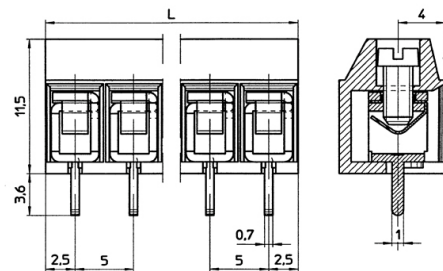
CTB55VG



TYPE NO.	POLES	LENGTH
CTB55VG/2	2	10mm
CTB55VG/3	3	15mm
CTB55VG/4	4	20mm
CTB55VG/5	5	25mm
CTB55VG/6	6	30mm
CTB55VG/7	7	35mm
CTB55VG/8	8	40mm
CTB55VG/9	9	45mm
CTB55VG/10	10	50mm
CTB55VG/11	11	55mm
CTB55VG/12	12	60mm

SPECIFICATION

Rating	24A/250V
	UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire Protector	Tin plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



PCB TERMINAL BLOCKS

5mm Pitch Low Profile Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm² (30-14AWG) solid cable
- 0.2-1.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-    approved

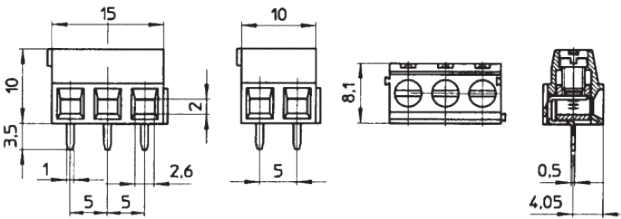
CTB0500



TYPE NO.	POLES	LENGTH
CTB0500/2	2	10mm
CTB0500/3	3	15mm
CTB0500/4	4	20mm
CTB0500/5	5	25mm
CTB0500/6	6	30mm
CTB0500/7	7	35mm
CTB0500/8	8	40mm
CTB0500/9	9	45mm
CTB0500/10	10	50mm
CTB0500/11	11	55mm
CTB0500/12	12	60mm

SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



5mm Pitch Low Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double Interlocking mechanism for increased strength
- 4-12 pole solid block and end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm² (30-14AWG) solid cable
- 0.2-1.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-    approved

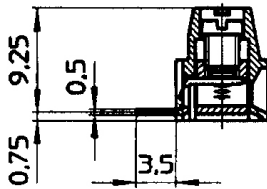
CTB0550



TYPE NO.	POLES	LENGTH
CTB0550/2	2	10mm
CTB0550/3	3	15mm
CTB0550/4	4	20mm
CTB0550/5	5	25mm
CTB0550/6	6	30mm
CTB0550/7	7	35mm
CTB0550/8	8	40mm
CTB0550/9	9	45mm
CTB0550/10	10	50mm
CTB0550/11	11	55mm

SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2.kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB0500

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PCB TERMINAL BLOCKS

5mm Pitch Low Profile 45° Rising Clamp Terminal Blocks

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SWITCHES

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SUPPORTS

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BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 2 & 3 pole interlocking
- 4-12 pole pre-assembled
- 45° mounting
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Captive screw
-  approved

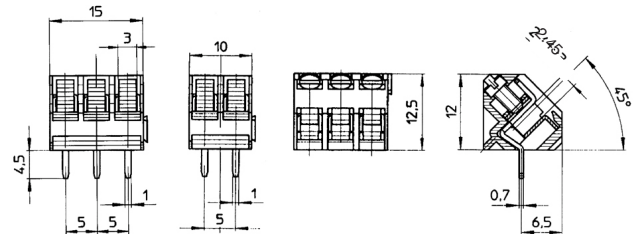
CTB3000



TYPE NO.	POLES	LENGTH
CTB3000/2	2	10mm
CTB3000/3	3	15mm
CTB3000/4	4	20mm
CTB3000/5	5	25mm
CTB3000/6	6	30mm
CTB3000/7	7	35mm
CTB3000/8	8	40mm
CTB3000/9	9	45mm
CTB3000/10	10	50mm
CTB3000/11	11	55mm
CTB3000/12	12	60mm

SPECIFICATION

Rating	24A/160V UL=16A/300V, VDE&IMQ=24A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



5mm Pitch Standard Profile Screw Terminal Blocks

- 2 & 3 pole interlocking
- 4-12 pole solid block end stackable
- Guided pin alignment
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-14AWG) solid cable
- 0.5-2.5mm² (30-14AWG) stranded cable
- Anti solder wicking terminals
-  approved

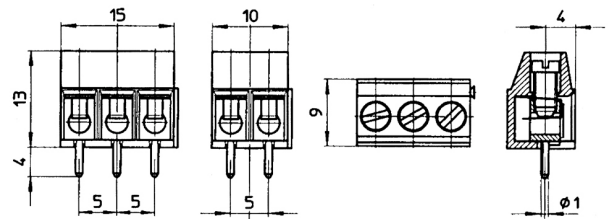
CTB1000



TYPE NO.	POLES	LENGTH
CTB1000/2	2	10mm
CTB1000/3	3	15mm
CTB1000/4	4	20mm
CTB1000/5	5	25mm
CTB1000/6	6	30mm
CTB1000/7	7	35mm
CTB1000/8	8	40mm
CTB1000/9	9	45mm
CTB1000/10	10	50mm
CTB1000/11	11	55mm
CTB1000/12	12	60mm

SPECIFICATION

Rating	24A/400V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



PCB TERMINAL BLOCKS

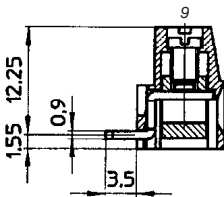
5mm Pitch Standard Profile 90° Screw Terminal Blocks

- 2 & 3 pole interlocking
- 2-12 pole solid block end stackable
- Guided pin alignment
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-14AWG) solid cable
- 0.5-2.5mm² (30-14AWG) stranded cable
- Anti solder wicking terminals
-  approved



TYPE NO.	POLES	LENGTH
CTB1050/2	2	10mm
CTB1050/3	3	15mm
CTB1050/4	4	20mm
CTB1050/5	5	25mm
CTB1050/6	6	30mm
CTB1050/7	7	35mm
CTB1050/8	8	40mm
CTB1050/9	9	45mm
CTB1050/10	10	50mm
CTB1050/11	11	55mm
CTB1050/12	12	60mm

SPECIFICATION	
Rating	24A/250V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire Protector	Tinned, plated phosphor bronze
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.1mm



For other dimensions see CTB1000

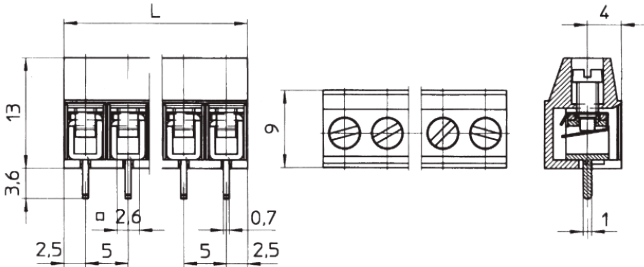
5mm Pitch Commercial Standard Profile Screw Terminal Blocks

- 2-12 pole solid block
- End stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-12AWG) solid cable
- 0.5-2.5mm² (30-12AWG) stranded cable
- Captive screw
- Anti solder wicking terminal
- Guided pin alignment
-  approved



TYPE NO.	POLES	LENGTH
CTB1500/2	2	10mm
CTB1500/3	3	15mm
CTB1500/4	4	20mm
CTB1500/5	5	25mm
CTB1500/6	6	30mm
CTB1500/7	7	35mm
CTB1500/8	8	40mm
CTB1500/9	9	45mm
CTB1500/10	10	50mm
CTB1500/11	11	55mm
CTB1500/12	12	60mm

SPECIFICATION	
Rating	24A/250V UL=18A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tinned, plated phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



PCB
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ENCLOSURES

BATTERIES

TRANS-
FORMERS

PCB TERMINAL BLOCKS

5mm Pitch Standard Profile Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Also moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

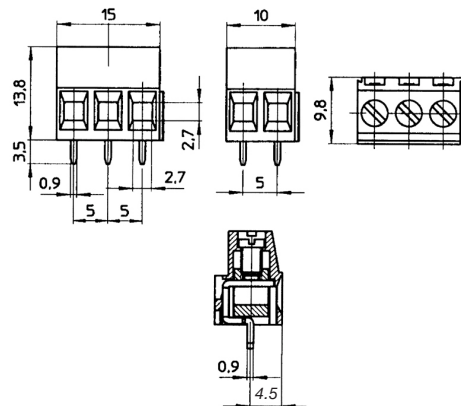
CTB0100



TYPE NO.	POLES	LENGTH
CTB0100/2	2	10mm
CTB0100/3	3	15mm
CTB0100/4	4	20mm
CTB0100/5	5	25mm
CTB0100/6	6	30mm
CTB0100/7	7	35mm
CTB0100/8	8	40mm
CTB0100/9	9	45mm
CTB0100/10	10	50mm
CTB0100/11	11	55mm
CTB0100/12	12	60mm

SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



5mm Pitch Standard Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

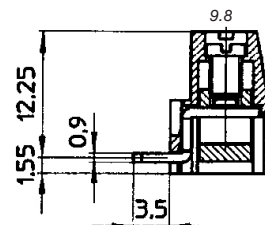
CTB0150



TYPE NO.	POLES	LENGTH
CTB0150/2	2	10mm
CTB0150/3	3	15mm
CTB0150/4	4	20mm
CTB0150/5	5	25mm
CTB0150/6	6	30mm
CTB0150/7	7	35mm
CTB0150/8	8	40mm
CTB0150/9	9	45mm
CTB0150/10	10	50mm
CTB0150/11	11	55mm
CTB0150/12	12	60mm

SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB0100

PCB TERMINAL BLOCKS

5mm Pitch High Power Rising Clamp Terminal Blocks

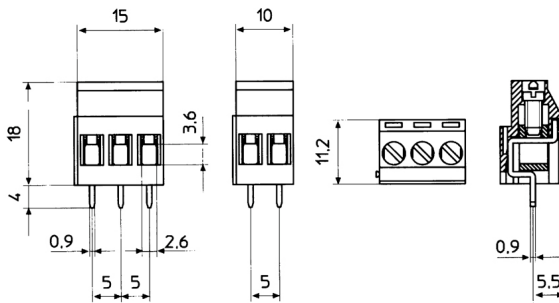
- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

CTB0700



TYPE NO.	POLES	LENGTH
CTB0700/2	2	10mm
CTB0700/3	3	15mm
CTB0700/4	4	20mm
CTB0700/5	5	25mm
CTB0700/6	6	30mm
CTB0700/7	7	35mm
CTB0700/8	8	40mm
CTB0700/9	9	45mm
CTB0700/10	10	50mm
CTB0700/11	11	55mm
CTB0700/12	12	60mm

SPECIFICATION	
Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



5mm Pitch High Power 90° Rising Clamp Terminal Blocks

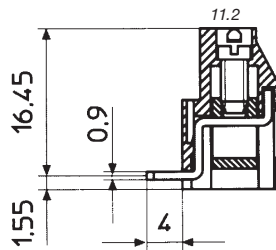
- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

CTB0750



TYPE NO.	POLES	LENGTH
CTB0750/2	2	10mm
CTB0750/3	3	15mm
CTB0750/4	4	20mm
CTB0750/5	5	25mm
CTB0750/6	6	30mm
CTB0750/7	7	35mm
CTB0750/8	8	40mm
CTB0750/9	9	45mm
CTB0750/10	10	50mm
CTB0750/11	11	55mm
CTB0750/12	12	60mm

SPECIFICATION	
Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB0700

PCB TERMINAL BLOCKS

5mm Pitch 36 Pole Rising Clamp Terminal Blocks

- Unique 36 pole strips
- Easily cut to required number of poles
- Can be supplied pre-cut
- Anti solder wicking
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

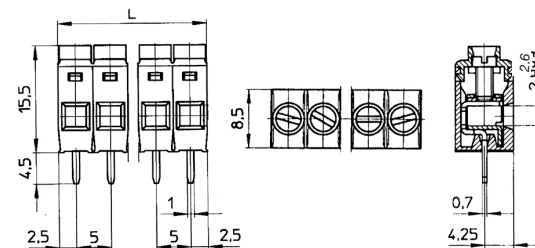
CTB7000



TYPE NO.	POLES	LENGTH
CTB7000/1	1	5mm
CTB7000/2	2	10mm
CTB7000/3	3	15mm
CTB7000/4	4	20mm
CTB7000/5	5	25mm
CTB7000/6	6	30mm
CTB7000/7	7	35mm
CTB7000/8	8	40mm
CTB7000/9	9	45mm
CTB7000/10	10	50mm
CTB7000/11	11	55mm
CTB7000/12	12	60mm
CTB7000/18	18	90mm
CTB7000/36	36	180mm

SPECIFICATION

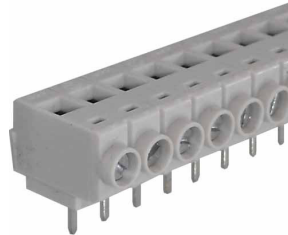
Rating	22A/250V UL=16A/300V, VDE&IMQ=22A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



5mm Pitch 36 Pole 90° Rising Clamp Terminal Blocks

- Unique 36 pole strips
- Easily cut to required number of poles
- Can be supplied pre-cut
- Anti solder wicking
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

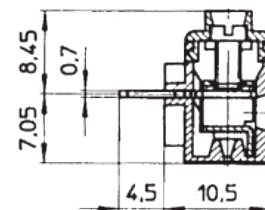
CTB7050



TYPE NO.	POLES	LENGTH
CTB7050/1	1	5mm
CTB7050/2	2	10mm
CTB7050/3	3	15mm
CTB7050/4	4	20mm
CTB7050/5	5	25mm
CTB7050/6	6	30mm
CTB7050/7	7	35mm
CTB7050/8	8	40mm
CTB7050/9	9	45mm
CTB7050/10	10	50mm
CTB7050/11	11	55mm
CTB7050/12	12	60mm
CTB7050/18	18	90mm
CTB7050/36	36	180mm

SPECIFICATION

Rating	22A/250V UL=16A/300V, VDE&IMQ=22A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



For other dimensions see CTB07000

PCB TERMINAL BLOCKS

5mm Pitch Inline Screw PCB Terminal Blocks

- 1 to 24 pole solid block terminals in 5mm pitch
- Screw clamp system provides same-side access as wire entry
- Useful in applications with restricted vertical access, e.g. covered enclosures
- Moulded in green UL94-V0 flame retardant PA66
- 0.2-4.0mm² (24-12AWG) solid cable
- 0.2-2.5mm² (28-12AWG) stranded cable
- Double row pins for enhanced board stability
-  US approved

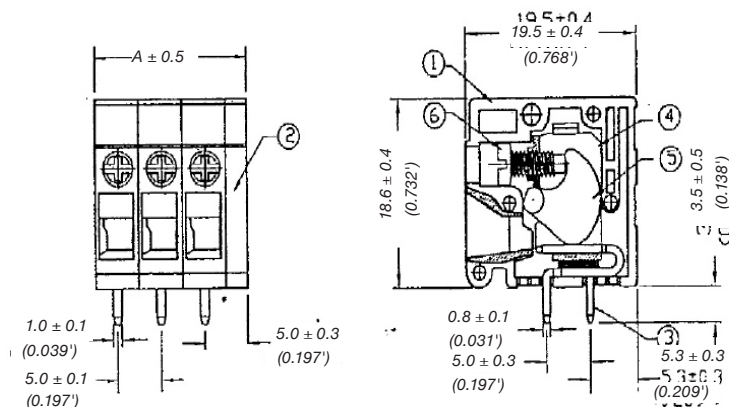
CTB90VG



SPECIFICATION

Rating	20A/300V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	-40°C to +120°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tin plated brass
Cage clamp	Steel, Zinc plated
Screw/torque	M2.6 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

TYPE NO.	POLES	LENGTH
CTB90VG/2	2	12.5mm
CTB90VG/3	3	17.5mm
CTB90VG/4	4	22.5mm
CTB90VG/5	5	27.5mm
CTB90VG/6	6	32.5mm
CTB90VG/7	7	37.5mm
CTB90VG/8	8	42.5mm
CTB90VG/9	9	47.5mm
CTB90VG/10	10	52.5mm
CTB90VG/11	11	57.5mm
CTB90VG/12	12	62.5mm
CTB90VG/13	13	67.5mm
CTB90VG/14	14	72.5mm
CTB90VG/15	15	77.5mm
CTB90VG/16	16	82.5mm
CTB90VG/17	17	87.5mm
CTB90VG/18	18	92.5mm
CTB90VG/19	19	97.5mm
CTB90VG/20	20	102.5mm
CTB90VG/21	21	107.5mm
CTB90VG/22	22	112.5mm
CTB90VG/23	23	117.5mm
CTB90VG/24	24	122.5mm



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PCB TERMINAL BLOCKS

5mm Pitch Large Cable Entry Rising Clamp Terminal Blocks

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TRANS-
FORMERS

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 2x 0.2-4.0mm² (30-12AWG) solid cable
- 2x 0.2-2.5mm² (30-12AWG) stranded cable
-  approved

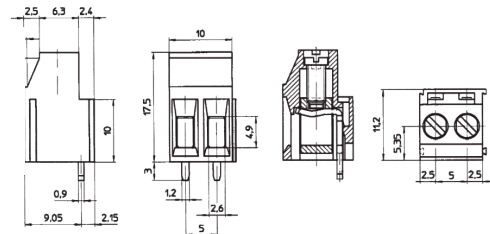
CTB09VG



TYPE NO.	POLES	LENGTH
CTB09VG/2	2	10mm
CTB09VG/3	3	15mm
CTB09VG/4	4	20mm
CTB09VG/5	5	25mm
CTB09VG/6	6	30mm
CTB09VG/7	7	35mm
CTB09VG/8	8	40mm
CTB09VG/9	9	45mm
CTB09VG/10	10	50mm
CTB09VG/11	11	55mm
CTB09VG/12	12	60mm

SPECIFICATION

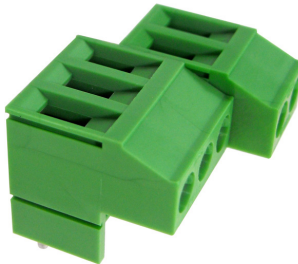
Rating	24A/250VAC UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



5mm Pitch Large Cable Entry 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 2x 0.2-4.0mm² (30-12AWG) solid cable
- 2x 0.2-2.5mm² (30-12AWG) stranded cable
-  approved

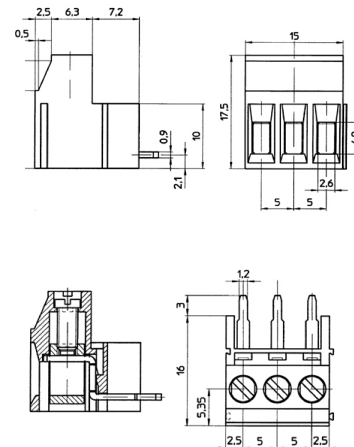
CTB09HG



TYPE NO.	POLES	LENGTH
CTB09HG/2	2	10mm
CTB09HG/3	3	15mm
CTB09HG/4	4	20mm
CTB09HG/5	5	25mm
CTB09HG/6	6	30mm
CTB09HG/7	7	35mm
CTB09HG/8	8	40mm
CTB09HG/9	9	45mm
CTB09HG/10	10	50mm
CTB09HG/11	11	55mm
CTB09HG/12	12	60mm

SPECIFICATION

Rating	24A/250VAC UL=16A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



PCB TERMINAL BLOCKS

5mm Pitch Double Decker Rising Clamp Terminal Blocks

- 4(2x2) & 6(2x3) pole double interlocking mechanism for increased strength
- Double decker
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
-  approved

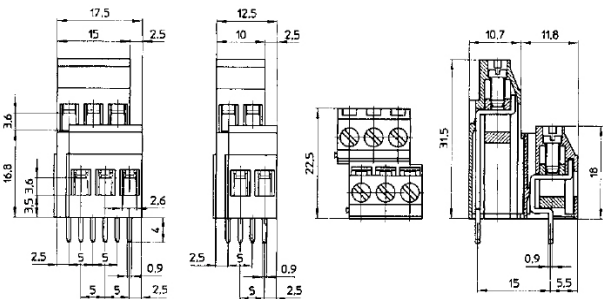
CTBDDVG



TYPE NO.	POLES	LENGTH
CTBDDVG/2	4	12.5mm
CTBDDVG/3	6	17.5mm

SPECIFICATION

Rating	24A/320V UL=16A/300V, VDE&IMQ=24/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel, zinc plated 0.5Nm
Recommended PCB hole size	ø1.5mm



5mm Pitch Low Profile Double Decker Rising Clamp Terminal

- 4(2x2) & 6(2x3) pole double interlocking mechanism for increased strength
- Double decker
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- Wire range: 22-12 AWG
- Guided pin alignment
-  approved

CTBDD2VG

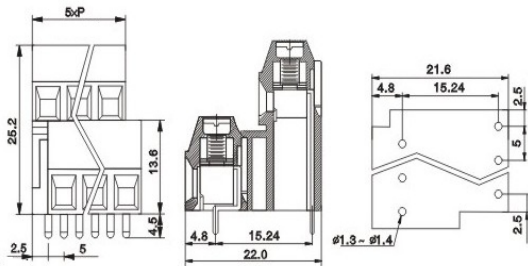


TYPE NO.	POLES	LENGTH
CTBDD2VG/2	4	12.5mm
CTBDD2VG/3	6	17.5mm

SPECIFICATION

Rating	10A/300V UL=16A/300V
Insulation Resistance	5000MΩ/1000V
Withstand Voltage	AC2000V/1min
Working temperature	-33°C to +120°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Wire clamp	Nickel plated brass
Screw/torque	M2.5 steel, zinc plated 0.5Nm
Recommended PCB hole size	ø1.3mm

Recommended PCB hole size ø1.3mm



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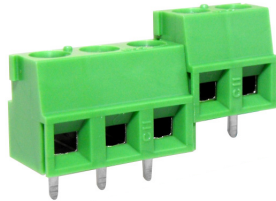
TRANS-
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PCB TERMINAL BLOCKS

5.08mm Pitch Low Profile Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 solid block end stackable
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-2.5mm² (30-14AWG) solid cable
- 0.2-1.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

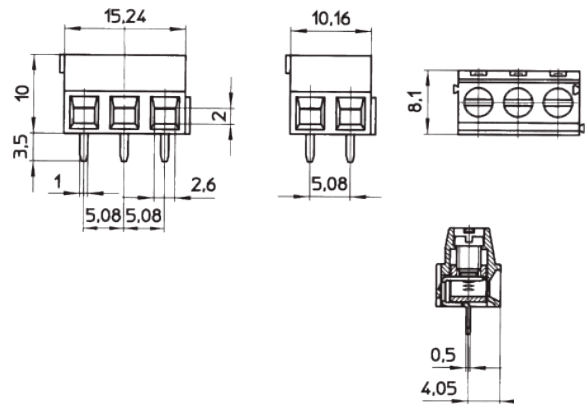
CTB0508



TYPE NO.	POLES	LENGTH
CTB0508/2	2	10.16mm
CTB0508/3	3	15.24mm
CTB0508/4	4	20.32mm
CTB0508/5	5	25.4mm
CTB0508/6	6	30.48mm
CTB0508/7	7	35.56mm
CTB0508/8	8	40.64mm
CTB0508/9	9	45.72mm
CTB0508/10	10	50.8mm
CTB0508/11	11	55.88mm
CTB0508/12	12	60.96mm

SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



5.08mm Pitch Low Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 solid block end stackable
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-2.5mm² (30-14AWG) solid cable
- 0.2-1.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

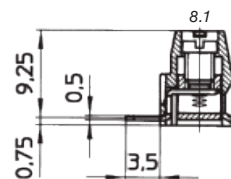
CTB0558



TYPE NO.	POLES	LENGTH
CTB0558/2	2	10.16mm
CTB0558/3	3	15.24mm
CTB0558/4	4	20.32mm
CTB0558/5	5	25.4mm
CTB0558/6	6	30.48mm
CTB0558/7	7	35.56mm
CTB0558/8	8	40.64mm
CTB0558/9	9	45.72mm
CTB0558/10	10	50.8mm
CTB0558/11	11	55.88mm
CTB0558/12	12	60.96mm

SPECIFICATION

Rating	14A/250V UL=14A/300V, VDE&IMQ=14A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



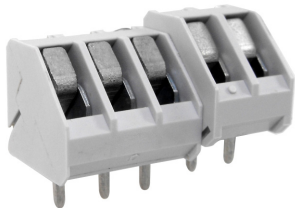
For other dimensions see CTB0508

PCB TERMINAL BLOCKS

5.08mm Pitch 45° Rising Clamp Terminal Blocks

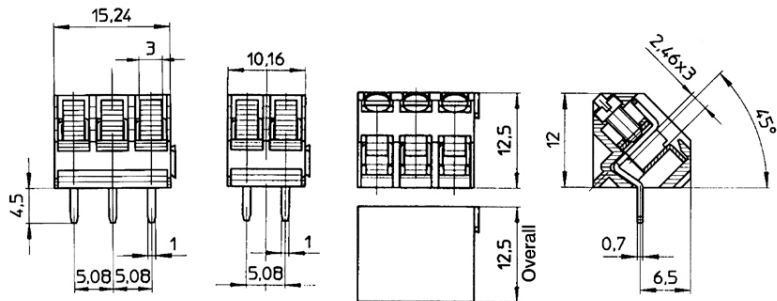
- 2 & 3 pole interlocking
- 4-12 pole pre-assembled
- 45° mounting
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Captive screw
-    approved

CTB3008



SPECIFICATION	
Rating	24A/160V UL=16A/300V, VDE&IMQ=24A/130V
Dielectric strength	≥1.25kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm

TYPE NO.	POLES	LENGTH
CTB3008/2	2	10.16mm
CTB3008/3	3	15.24mm
CTB3008/4	4	20.32mm
CTB3008/5	5	25.4mm
CTB3008/6	6	30.48mm
CTB3008/7	7	35.56mm
CTB3008/8	8	40.64mm
CTB3008/9	9	45.72mm
CTB3008/10	10	50.8mm
CTB3008/11	11	55.88mm
CTB3008/12	12	60.96mm



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5.08mm Pitch Standard Profile Rising Clamp Terminal Blocks

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TRANS-
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- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
-  approved

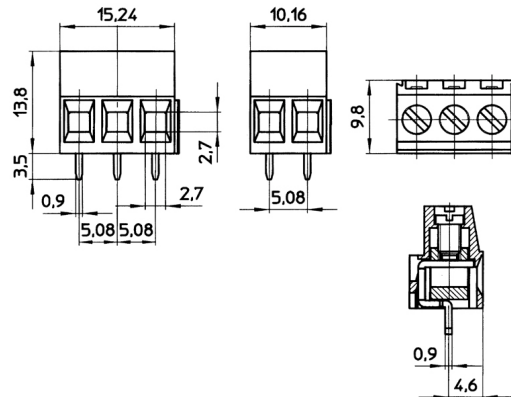
CTB0108



TYPE NO.	POLES	LENGTH
CTB0108/2	2	10.16mm
CTB0108/3	3	15.24mm
CTB0108/4	4	20.32mm
CTB0108/5	5	25.4mm
CTB0108/6	6	30.48mm
CTB0108/7	7	35.56mm
CTB0108/8	8	40.64mm
CTB0108/9	9	45.72mm
CTB0108/10	10	50.8mm
CTB0108/11	11	55.88mm
CTB0108/12	12	60.96mm

SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



5.08mm Pitch Standard Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block end stackable
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

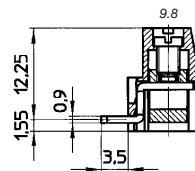
CTB0158



TYPE NO.	POLES	LENGTH
CTB0158/2	2	10.16mm
CTB0158/3	3	15.24mm
CTB0158/4	4	20.32mm
CTB0158/5	5	25.4mm
CTB0158/6	6	30.48mm
CTB0158/7	7	35.56mm
CTB0158/8	8	40.64mm
CTB0158/9	9	45.72mm
CTB0158/10	10	50.8mm
CTB0158/11	11	55.88mm
CTB0158/12	12	60.96mm

SPECIFICATION

Rating	24A/250V UL=14A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥2kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



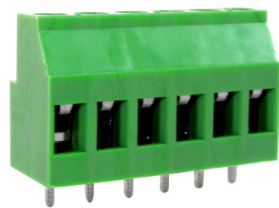
For other dimensions see CTB0108

PCB TERMINAL BLOCKS

5.08mm Pitch High Power Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

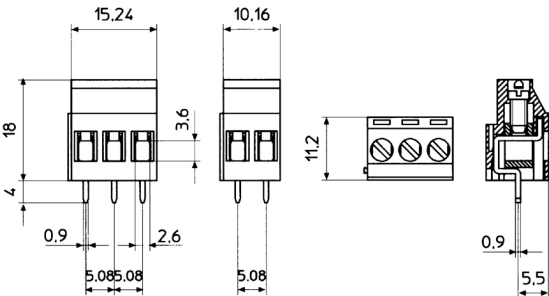
CTB0708



TYPE NO.	POLES	LENGTH
CTB0708/2	2	10.16mm
CTB0708/3	3	15.24mm
CTB0708/4	4	20.32mm
CTB0708/5	5	25.4mm
CTB0708/6	6	30.48mm
CTB0708/7	7	35.56mm
CTB0708/8	8	40.64mm
CTB0708/9	9	45.72mm
CTB0708/10	10	50.8mm
CTB0708/11	11	55.88mm
CTB0708/12	12	60.96mm

SPECIFICATION

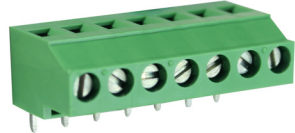
Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



5.08mm Pitch High Power 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

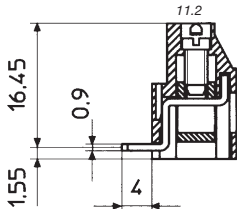
CTB0758



TYPE NO.	POLES	LENGTH
CTB0758/2	2	10.16mm
CTB0758/3	3	15.24mm
CTB0758/4	4	20.32mm
CTB0758/5	5	25.4mm
CTB0758/6	6	30.48mm
CTB0758/7	7	35.56mm
CTB0758/8	8	40.64mm
CTB0758/9	9	45.72mm
CTB0758/10	10	50.8mm
CTB0758/11	11	55.88mm
CTB0758/12	12	60.96mm

SPECIFICATION

Rating	24A/320V UL=16A/300V, VDE&IMQ=24A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB0708

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

PCB TERMINAL BLOCKS

5.08mm pitch Triple Decker Terminal Blocks

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

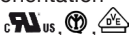
INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 6(3x2) & 9(3x3) pole triple interlocking mechanism for increased strength
- Triple decker
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Available as a double decker with lower and middle or middle and upper
- Rear interlocks enable right to left or left to right orientation
-  approved

CTBTDVJ

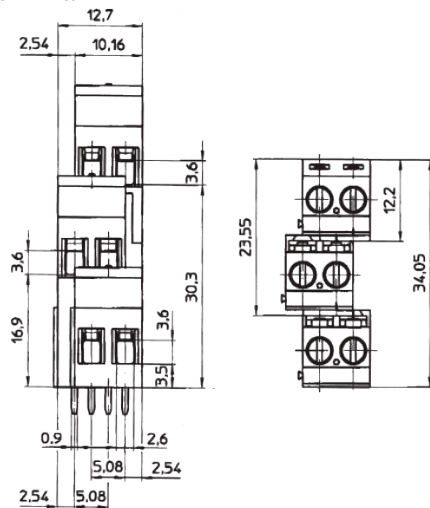


TYPE NO.	POLES	LENGTH
CTBTDVJ/2	6	12.7mm
CTBTDVJ/3	9	17.8mm

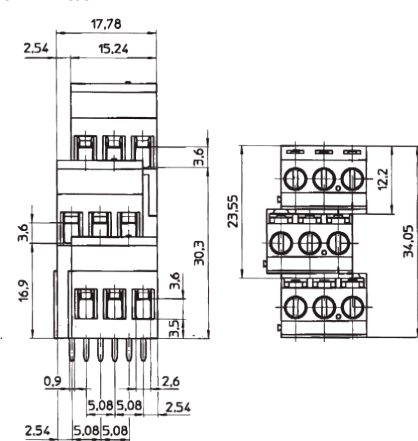
SPECIFICATION

Rating	20A/320V UL=20A/300V, VDE&IMQ=20A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

CTBTDVJ/2



CTBTDVJ/3



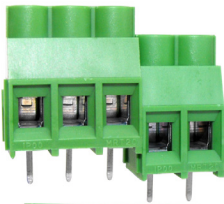
PCB TERMINAL BLOCKS

6.35mm Pitch High Power Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-6.0mm² (30-10AWG) solid & stranded cable
- Guided pin alignment
- Captive screws
-  approved

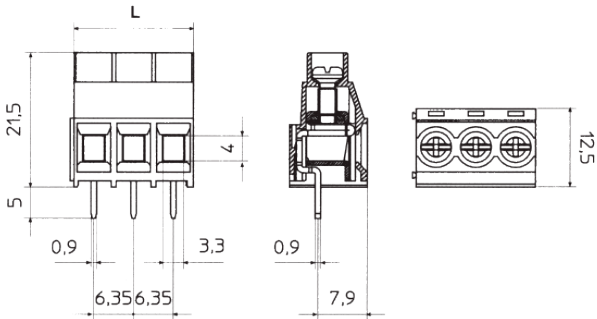
TYPE NO.	POLES	LENGTH
CTB04VY/2	2	12.7mm
CTB04VY/3	3	19.1mm
CTB04VY/4	4	25.4mm
CTB04VY/5	5	31.8mm
CTB04VY/6	6	38.1mm
CTB04VY/7	7	44.5mm
CTB04VY/8	8	50.8mm
CTB04VY/9	9	57.2mm
CTB04VY/10	10	63.5mm
CTB04VY/11	11	69.9mm
CTB04VY/12	12	76.2mm

CTB04VY



SPECIFICATION

Rating	32A/400V UL=24A/300V, VDE&IMQ=32A/450V
Dielectric strength	≥2.5kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising Clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



7.5mm Pitch Commercial Low Profile Screw Terminal Blocks

- 2 & 3 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardant PA66
- Wire protector terminals
- 0.5-4.0mm² (30-12AWG) solid cable
- 0.5-2.5mm² (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-  approved

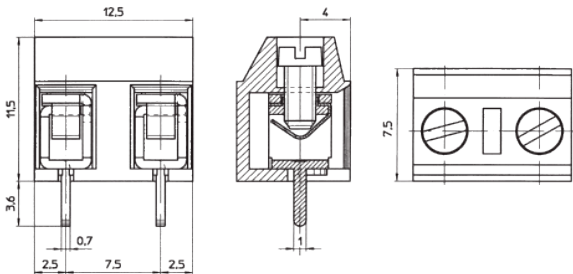
CTB55VK



TYPE NO.	POLES	LENGTH
CTB55VK/2	2	15mm
CTB55VK/3	3	22.5mm

SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Wire Protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm

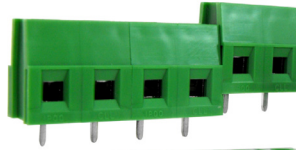


PCB TERMINAL BLOCKS

7.5mm Pitch Standard Profile Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole solid block
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
-  approved

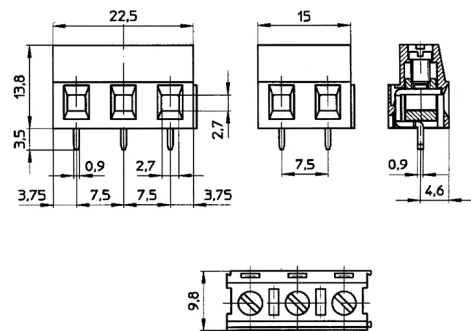
CTB0110



TYPE NO.	POLES	LENGTH
CTB0110/2	2	15mm
CTB0110/3	3	22.5mm
CTB0110/4	4	30mm
CTB0110/5	5	37.5mm
CTB0110/6	6	45mm
CTB0110/7	7	52.5mm
CTB0110/8	8	60mm
CTB0110/9	9	67.5mm
CTB0110/10	10	75mm
CTB0110/11	11	82.5mm
CTB0110/12	12	90mm

SPECIFICATION

Rating	24A/500V UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



7.5mm Pitch Standard Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
-  approved

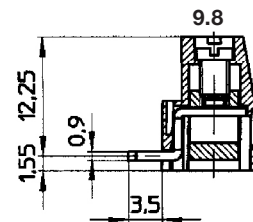
CTB0115



TYPE NO.	POLES	LENGTH
CTB0115/2	2	15mm
CTB0115/3	3	22.5mm
CTB0115/4	4	30mm
CTB0115/5	5	37.5mm
CTB0115/6	6	45mm
CTB0115/7	7	52.5mm
CTB0115/8	8	60mm
CTB0115/9	9	67.5mm
CTB0115/10	10	75mm
CTB0115/11	11	82.5mm
CTB0115/12	12	90mm

SPECIFICATION

Rating	24A/750V UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	125°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB0110

PCB TERMINAL BLOCKS

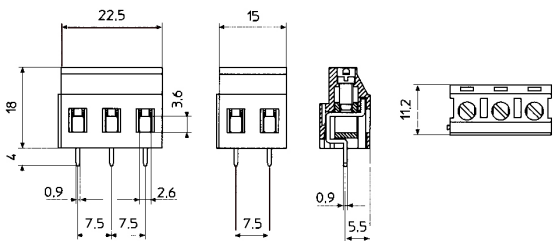
7.5mm Pitch High Power Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved



TYPE NO.	POLES	LENGTH
CTB07VK/2	2	15mm
CTB07VK/3	3	22.5mm
CTB07VK/4	4	30mm
CTB07VK/5	5	37.5mm
CTB07VK/6	6	45mm
CTB07VK/7	7	52.5mm
CTB07VK/8	8	60mm
CTB07VK/9	9	67.5mm
CTB07VK/10	10	75mm
CTB07VK/11	11	82.5mm
CTB07VK/12	12	90mm

SPECIFICATION	
Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse strength	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



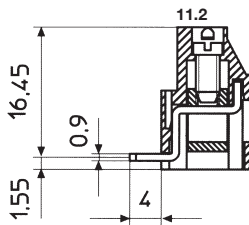
7.5mm Pitch High Power 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved



TYPE NO.	POLES	LENGTH
CTB07HK/2	2	15mm
CTB07HK/3	3	22.5mm
CTB07HK/4	4	30mm
CTB07HK/5	5	37.5mm
CTB07HK/6	6	45mm
CTB07HK/7	7	52.5mm
CTB07HK/8	8	60mm
CTB07HK/9	9	67.5mm
CTB07HK/10	10	75mm
CTB07HK/11	11	82.5mm
CTB07HK/12	12	90mm

SPECIFICATION	
Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB07VK

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

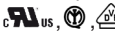
ENCLOSURES

BATTERIES

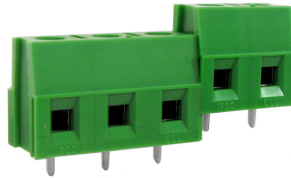
TRANS-
FORMERS

PCB TERMINAL BLOCKS

7.62mm Pitch Standard Profile Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
-  approved

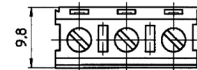
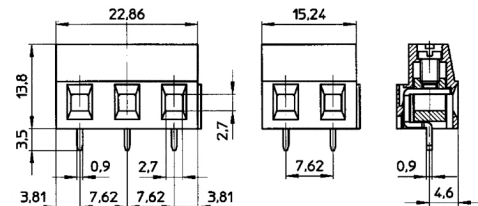
CTB0118



TYPE NO.	POLES	LENGTH
CTB0118/2	2	15.2mm
CTB0118/3	3	22.9mm
CTB0118/4	4	30.5mm
CTB0118/5	5	38.1mm
CTB0118/6	6	45.7mm
CTB0118/7	7	53.3mm
CTB0118/8	8	61mm
CTB0118/9	9	68.6mm
CTB0118/10	10	76.2mm
CTB0118/11	11	83.8mm
CTB0118/12	12	91.4mm

SPECIFICATION

Rating	24A/500V UL=14A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



7.62mm Pitch Standard Profile 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
-  approved

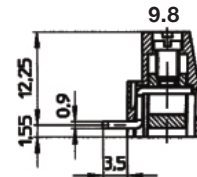
CTB01HL



TYPE NO.	POLES	LENGTH
CTB01HL/2	2	15.2mm
CTB01HL/3	3	22.9mm
CTB01HL/4	4	30.5mm
CTB01HL/5	5	38.1mm
CTB01HL/6	6	45.7mm
CTB01HL/7	7	53.3mm
CTB01HL/8	8	61mm
CTB01HL/9	9	68.6mm
CTB01HL/10	10	76.2mm
CTB01HL/11	11	83.8mm
CTB01HL/12	12	91.4mm

SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



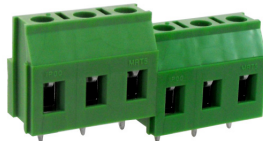
For other dimensions see CTB0118

PCB TERMINAL BLOCKS

7.62mm Pitch High Power Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

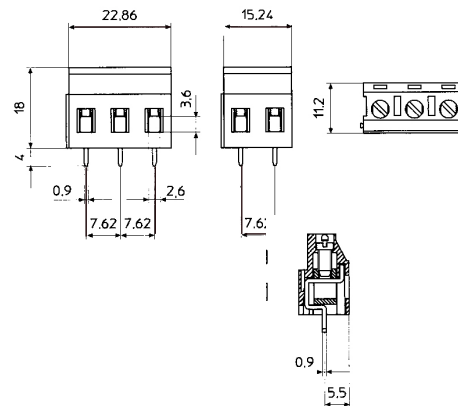
CTB07VL



TYPE NO.	POLES	LENGTH
CTB07VL/2	2	15.2mm
CTB07VL/3	3	22.9mm
CTB07VL/4	4	30.5mm
CTB07VL/5	5	38.1mm
CTB07VL/6	6	45.7mm
CTB07VL/7	7	53.3mm
CTB07VL/8	8	61mm
CTB07VL/9	9	68.6mm
CTB07VL/10	10	76.2mm
CTB07VL/11	11	83.8mm
CTB07VL/12	12	91.4mm

SPECIFICATION

Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



7.62mm Pitch High Power 90° Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4-12 pole pre-assembled
- Moulded in green UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screw
-  approved

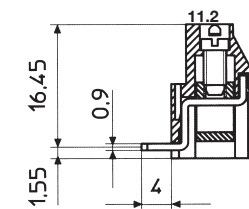
CTB07HL



TYPE NO.	POLES	LENGTH
CTB07HL/2	2	15.2mm
CTB07HL/3	3	22.9mm
CTB07HL/4	4	30.5mm
CTB07HL/5	5	38.1mm
CTB07HL/6	6	45.7mm
CTB07HL/7	7	53.3mm
CTB07HL/8	8	61mm
CTB07HL/9	9	68.6mm
CTB07HL/10	10	76.2mm
CTB07HL/11	11	83.8mm
CTB07HL/12	12	91.4mm

SPECIFICATION

Rating	24A/750V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Tinned, nickel plated brass
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



For other dimensions see CTB07VL

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

PCB TERMINAL BLOCKS

9.52mm Pitch High Power Rising Clamp Terminal Blocks

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 2 & 3 pole double interlocking mechanism for increased strength
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-6.0mm² (30-10AWG) solid & stranded cable
- Guided pin alignment
- Captive screws
-  approved

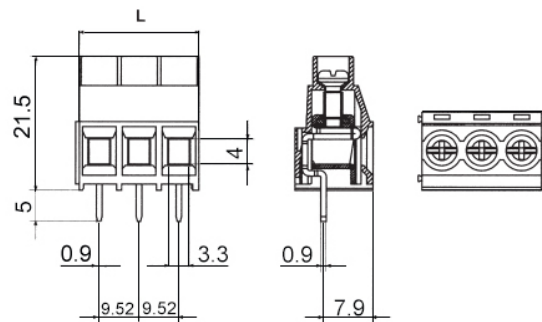
CTB04VZ



TYPE NO.	POLES	LENGTH
CTB04VZ/2	2	19.04mm
CTB04VZ/3	3	28.56mm
CTB04VZ/4	4	38.08mm
CTB04VZ/5	5	47.6mm
CTB04VZ/6	6	57.12mm
CTB04VZ/7	7	66.64mm
CTB04VZ/8	8	76.16mm
CTB04VZ/9	9	85.68mm
CTB04VZ/10	10	95.2mm
CTB04VZ/11	11	104.72mm
CTB04VZ/12	12	114.24mm

SPECIFICATION

Rating	32A/630V
	UL=24A/300V, VDE&IMQ=32A
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising Clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm



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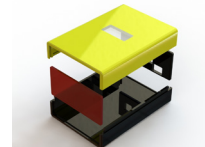
Potting Boxes



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PCB TERMINAL BLOCKS

10mm Pitch Low Profile Screw Terminal Blocks

PCB
TERMINAL
BLOCKS

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ENCLOSURES

BATTERIES

TRANS-
FORMERS

- 1 & 2 pole interlocking
- 3-12 pole solid block end stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm² (30-14AWG) solid cable
- 0.5-1.0mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

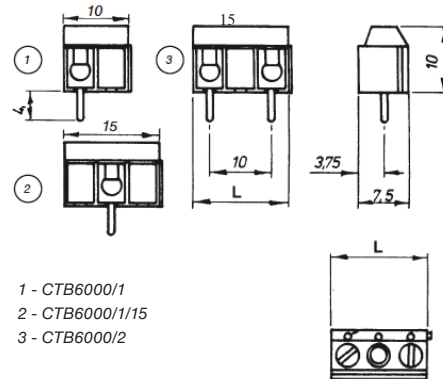
CTB6000



TYPE NO.	POLES	LENGTH
CTB6000/1	1	10mm
CTB6000/1/15	1	15mm
CTB6000/2	2	15mm
CTB6000/3	3	25mm
CTB6000/4	4	35mm
CTB6000/5	5	45mm
CTB6000/6	6	55mm
CTB6000/7	7	65mm
CTB6000/8	8	75mm
CTB6000/9	9	85mm
CTB6000/10	10	95mm
CTB6000/11	11	105mm
CTB6000/12	12	115mm

SPECIFICATION

Rating	13.5A/500V UL=14A/300V, VDE&IMQ=13.5A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



10mm Pitch Low Profile 90° Screw Terminal Blocks

- 1 & 2 pole interlocking
- 2-12 pole solid block
- Test probe facility
- 90° mounting
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-1.5mm² (30-14AWG) solid cable
- 0.5-1.0mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

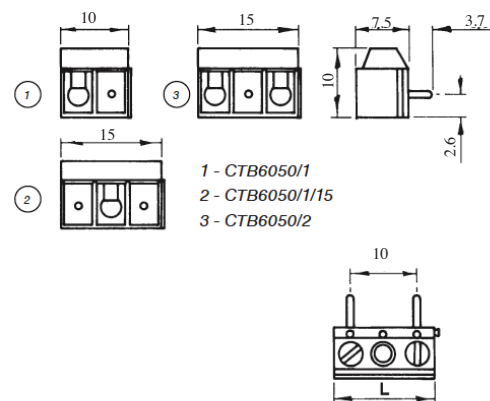
CTB6050



TYPE NO.	POLES	LENGTH
CTB6050/1	1	10mm
CTB6050/1/15	1	15mm
CTB6050/2	2	15mm
CTB6050/3	3	25mm
CTB6050/4	4	35mm
CTB6050/5	5	45mm
CTB6050/6	6	55mm
CTB6050/7	7	65mm
CTB6050/8	8	75mm
CTB6050/9	9	85mm
CTB6050/10	10	95mm
CTB6050/11	11	105mm
CTB6050/12	12	115mm

SPECIFICATION

Rating	13.5A/500V UL=14A/300V, VDE&IMQ=13.5A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



PCB TERMINAL BLOCKS

10mm Pitch Low Profile 45° Rising Clamp Terminal Blocks

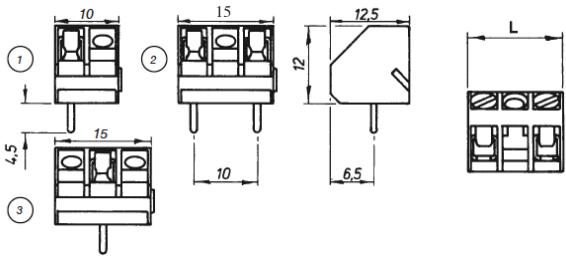
- 1-12 pole interlocking
- 45° mounting
- Captive screws
- Moulded in grey UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
-  approved

CTB4000



TYPE NO.	POLES	LENGTH
CTB4000/1	1	10mm
CTB4000/1/15	1	15mm
CTB4000/2	2	15mm
CTB4000/3	3	25mm
CTB4000/4	4	35mm
CTB4000/5	5	45mm
CTB4000/6	6	55mm
CTB4000/7	7	65mm
CTB4000/8	8	75mm
CTB4000/9	9	85mm
CTB4000/10	10	95mm
CTB4000/11	11	105mm
CTB4000/12	12	115mm

SPECIFICATION	
Rating	24A/500V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



1 - CTB4000/1
2 - CTB4000/1/15
3 - CTB4000/2

10mm Pitch Commercial Low Profile Screw Terminal Blocks

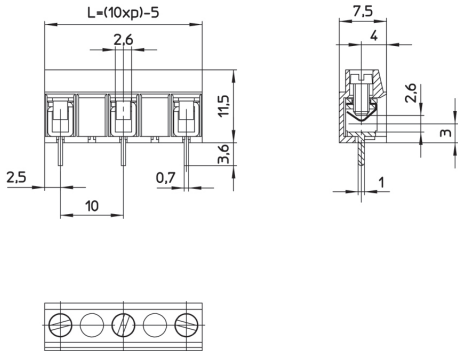
- 2-6 pole solid block
- End stackable
- Moulded in green UL94-V0 flame retardant PA66
- Wire protector terminals
- 0.5-4.0mm² (30-12AWG) solid cable
- 0.5-2.5mm² (30-12AWG) stranded cable
- Captive screws
- Anti solder wicking terminal
- Guided pin alignment
-  approved

CTB55VN



TYPE NO.	POLES	LENGTH
CTB55VN/2	2	15mm
CTB55VN/3	3	25mm
CTB55VN/4	4	35mm
CTB55VN/5	5	45mm
CTB55VN/6	6	55mm

SPECIFICATION	
Rating	24A/630V UL=16A/300V, VDE&IMQ=24A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



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ENCLOSURES

BATTERIES

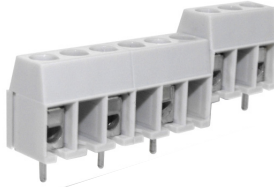
TRANS-
FORMERS

PCB TERMINAL BLOCKS

10mm Pitch Standard Profile Screw Terminal Blocks

- 1 & 2 pole interlocking
- 3-12 pole solid block end stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-14AWG) solid cable
- 0.5-2.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

CTB2000

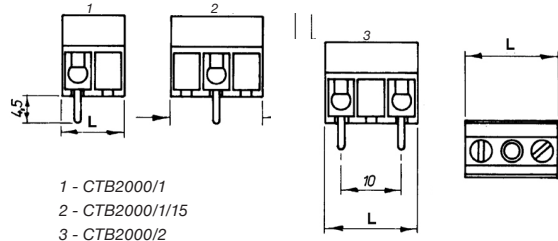


SPECIFICATION

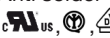
Rating

Rating	24A/500V
Dielectric strength	UL=16A/300V, VDE&IMQ=24A/750V
Impulse withstand voltage	≥3kV
Working temperature	6kV
Moulding	85°C
Pin/terminal	UL94-V0 flame retardant PC
Wire protector	Tinned, nickel plated brass
Screw/torque	Tin plated, phosphor bronze
Recommended PCB hole size	M3 steel zinc plated, 0.5Nm ø1.3mm

TYPE NO.	POLES	LENGTH
CTB2000/1	1	10mm
CTB2000/1/15	1	15mm
CTB2000/2	2	15mm
CTB2000/3	3	25mm
CTB2000/4	4	35mm
CTB2000/5	5	45mm
CTB2000/6	6	55mm
CTB2000/7	7	65mm
CTB2000/8	8	75mm
CTB2000/9	9	85mm
CTB2000/10	10	95mm
CTB2000/11	11	105mm
CTB2000/12	12	115mm



10mm Pitch Standard Profile 90° Screw Terminal Blocks

- 1 & 2 pole interlocking
- 3-6 pole solid block end stackable
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-14AWG) solid cable
- 0.5-2.5mm² (30-14AWG) stranded cable
- Guided pin alignment
- Captive screw
- Anti solder wicking terminals
-  approved

CTB2050

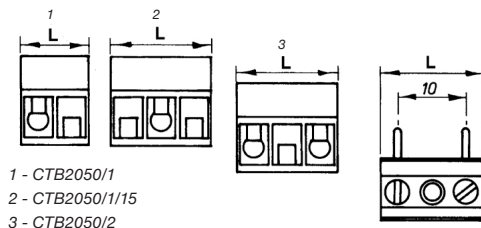


SPECIFICATION

Rating

Rating	24A/500V
Dielectric strength	UL=16A/300V, VDE&IMQ=24A/750V
Impulse withstand voltage	≥3kV
Working temperature	6kV
Moulding	85°C
Pin/terminal	UL94-V0 flame retardant PC
Wire protector	Tinned, nickel plated brass
Screw/torque	Tin plated, phosphor bronze
Recommended PCB hole size	M3 steel zinc plated, 0.5Nm ø1.3mm

TYPE NO.	POLES	LENGTH
CTB2050/1	1	10mm
CTB2050/1/15	1	15mm
CTB2050/2	2	15mm
CTB2050/3	3	25mm
CTB2050/4	4	35mm
CTB2050/5	5	45mm
CTB2050/6	6	55mm

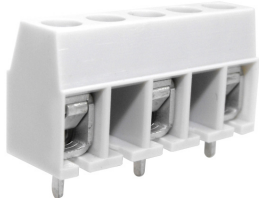


PCB TERMINAL BLOCKS

10mm Pitch Commercial Standard Profile Screw Terminal Blocks

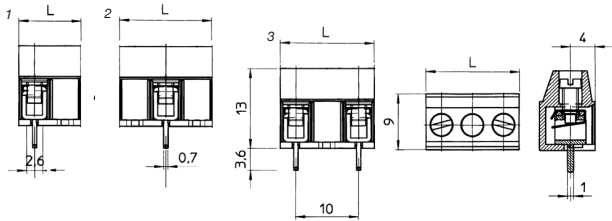
- 1-12 pole solid block
- Moulded in grey UL94-V0 flame retardant PC
- Wire protector terminals
- 0.5-4.0mm² (30-12AWG) solid cable
- 0.5-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-  approved

CTB2500



SPECIFICATION	
Rating	24A/250V
	UL=18A/300V, VDE&IMQ=24A/250V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Wire protector	Tin plated, phosphor bronze
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm

TYPE NO.		
CTB2500/1		
CTB2500/1/15	1	10mm
CTB2500/2	1	15mm
CTB2500/3	2	15mm
CTB2500/4	3	25mm
CTB2500/5	4	35mm
	5	45mm



- 1 - CTB2500/1
2 - CTB2500/1/15
3 - CTB2500/2

PCB
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PCB TERMINAL BLOCKS

10mm Pitch 18 Pole Rising Clamp Terminal Blocks

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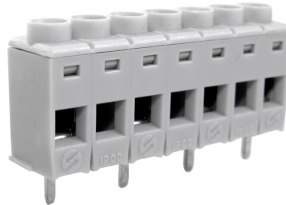
ENCLOSURES

BATTERIES

TRANS-
FORMERS

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-    approved

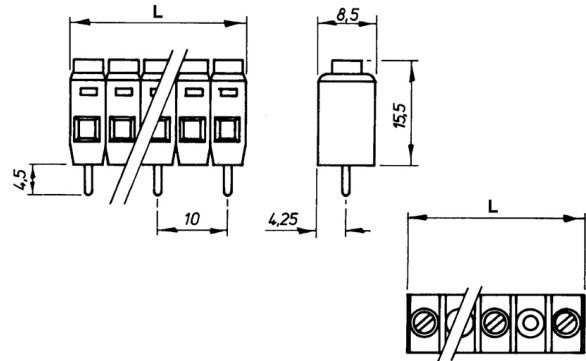
CTB8000



TYPE NO.	POLES	LENGTH
CTB8000/1	1	5mm
CTB8000/2	2	15mm
CTB8000/3	3	25mm
CTB8000/4	4	35mm
CTB8000/5	5	45mm
CTB8000/6	6	55mm
CTB8000/7	7	65mm
CTB8000/8	8	75mm
CTB8000/9	9	85mm
CTB8000/10	10	95mm
CTB8000/11	11	105mm
CTB8000/12	12	115mm
CTB8000/18	18	175mm

SPECIFICATION

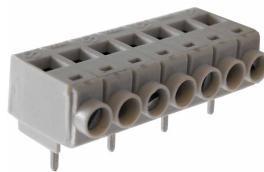
Rating	22A/500V UL=16A/300V, VDE&IMQ=22A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



10mm Pitch 18 Pole 90° Rising Clamp Terminal Blocks

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-4.0mm² (30-12AWG) solid cable
- 0.2-2.5mm² (30-12AWG) stranded cable
- Guided pin alignment
- Captive screws
- Anti solder wicking terminals
-    approved

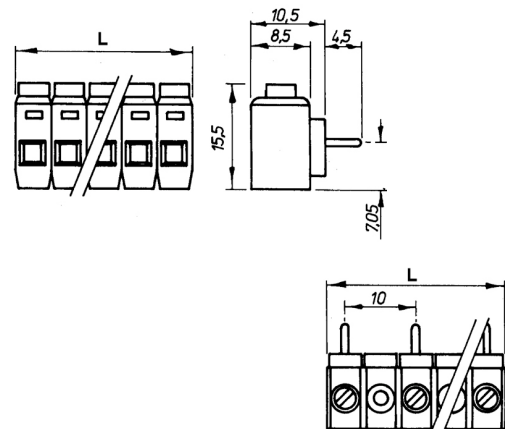
CTB8050



TYPE NO.	POLES	LENGTH
CTB8050/1	1	10mm
CTB8050/1/15	1	15mm
CTB8050/2	2	15mm
CTB8050/3	3	25mm
CTB8050/4	4	35mm
CTB8050/5	5	45mm
CTB8050/6	6	55mm
CTB8050/7	7	65mm
CTB8050/8	8	75mm
CTB8050/9	9	85mm
CTB8050/10	10	95mm
CTB8050/11	11	105mm
CTB8050/12	12	115mm
CTB8050/18	18	175mm

SPECIFICATION

Rating	22A/500V UL=16A/300V, VDE&IMQ=22A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm



PCB TERMINAL BLOCKS

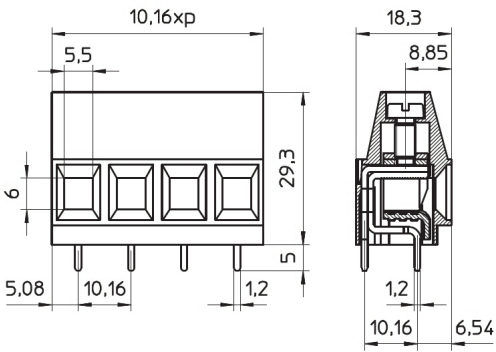
10.16mm Pitch Very High Power Rising Clamp Terminal Blocks

- 2 & 3 pole double interlocking mechanism for increased strength
- 4 to 12 pole solid block
- Captive screws
- Moulded in grey UL94-V0 flame retardant PA66
- Professional rising clamp terminals
- 0.5-16mm² (20-6AWG) solid cable
- 0.5-10mm² (20-6AWG) stranded cable
-  approved



TYPE NO.	POLES	LENGTH
CTB77VP/2	2	20.3mm
CTB77VP/3	3	30.5mm
CTB77VP/4	4	40.6mm
CTB77VP/5	5	51mm
CTB77VP/6	6	61mm
CTB77VP/7	7	71.1mm
CTB77VP/8	8	81.3mm
CTB77VP/9	9	91.4mm
CTB77VP/10	10	101.6mm
CTB77VP/11	11	111.8mm
CTB77VP/12	12	121.9mm

SPECIFICATION	
Rating	57A/630V UL=58A/300V, VDE&IMQ=57A/750V
Dielectric strength	≥3kV
Impulse withstand voltage	8kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M4 steel zinc plated, 1.8Nm
Recommended PCB hole size	ø1.6mm



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FORMERS

PCB TERMINAL BLOCKS

Polarising Key for Pluggable Terminal Blocks

PCB
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BATTERIES

TRANS-
FORMERS

- Prevents mis-mating of adjacent connectors
- Orange colour

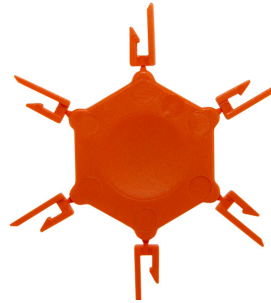
CTB92C



For all pluggable terminal block pitches except 3.5mm and 3.81mm, use CTB92C in female connectors and CTB93C in male connectors

For pluggable terminal block pitches 3.5mm and 3.81mm, use CTB92C in male connectors only

CTB93C



PCB TERMINAL BLOCKS

3.5mm Pitch Pluggable Rising Clamp Terminal Blocks

- 2-20 pole solid block
- Pluggable male-female connectors
- Closed headers
- Horizontal female plug style
- Vertical female plug style available on request
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA

- Professional rising clamp terminals
- 0.2-1.0mm² (30-16AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-   approved

SPECIFICATION

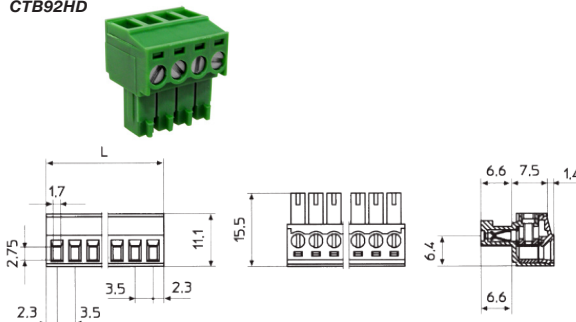
Rating	10A/200V UL=8A/300V, VDE&IMQ=10A/200V
Dielectric strength	≥2.5kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.2mm

Female connector

TYPE NO.	POLES	LENGTH
CTB92HD/2	2	7mm
CTB92HD/3	3	10.5mm
CTB92HD/4	4	14mm
CTB92HD/5	5	17.5mm
CTB92HD/6	6	21mm
CTB92HD/7	7	24.5mm
CTB92HD/8	8	28mm
CTB92HD/9	9	31.5mm
CTB92HD/10	10	35mm
CTB92HD/11	11	38.5mm

TYPE NO.	POLES	LENGTH
CTB92HD/12	12	42mm
CTB92HD/13	13	45.5mm
CTB92HD/14	14	49mm
CTB92HD/15	15	52.5mm
CTB92HD/16	16	56mm
CTB92HD/17	17	59.5mm
CTB92HD/18	18	63mm
CTB92HD/19	19	66.5mm
CTB92HD/20	20	70mm

CTB92HD

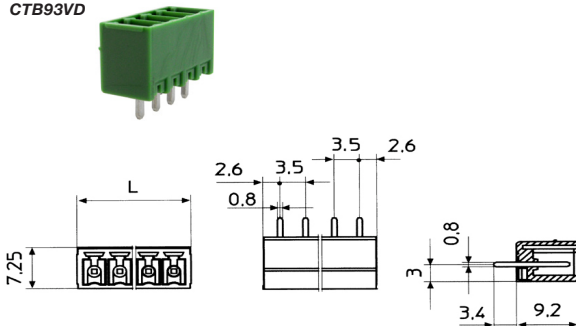


PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH
CTB93VD/2	2	8.4mm
CTB93VD/3	3	11.9mm
CTB93VD/4	4	15.4mm
CTB93VD/5	5	18.9mm
CTB93VD/6	6	22.4mm
CTB93VD/7	7	25.9mm
CTB93VD/8	8	29.4mm
CTB93VD/9	9	32.9mm
CTB93VD/10	10	36.4mm
CTB93VD/11	11	39.9mm

TYPE NO.	POLES	LENGTH
CTB93VD/12	12	43.4mm
CTB93VD/13	13	46.9mm
CTB93VD/14	14	50.4mm
CTB93VD/15	15	53.9mm
CTB93VD/16	16	57.4mm
CTB93VD/17	17	60.9mm
CTB93VD/18	18	64.4mm
CTB93VD/19	19	67.9mm
CTB93VD/20	20	71.4mm

CTB93VD

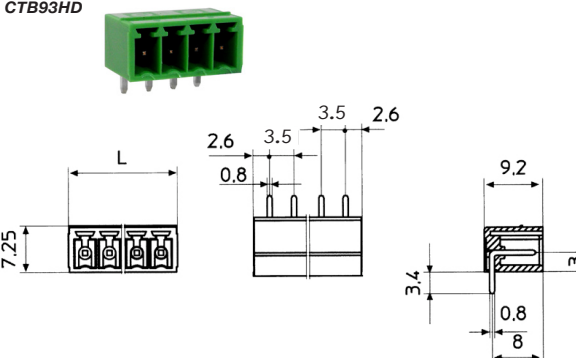


PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH
CTB93HD/2	2	8.4mm
CTB93HD/3	3	11.9mm
CTB93HD/4	4	15.4mm
CTB93HD/5	5	18.9mm
CTB93HD/6	6	22.4mm
CTB93HD/7	7	25.9mm
CTB93HD/8	8	29.4mm
CTB93HD/9	9	32.9mm
CTB93HD/10	10	36.4mm
CTB93HD/11	11	39.9mm

TYPE NO.	POLES	LENGTH
CTB93HD/12	12	43.4mm
CTB93HD/13	13	46.9mm
CTB93HD/14	14	50.4mm
CTB93HD/15	15	53.9mm
CTB93HD/16	16	57.4mm
CTB93HD/17	17	60.9mm
CTB93HD/18	18	64.4mm
CTB93HD/19	19	67.9mm
CTB93HD/20	20	71.4mm

CTB93HD



PCB
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BATTERIES

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PCB TERMINAL BLOCKS

3.81mm Pitch Pluggable Rising Clamp Terminal Blocks

PCB
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BATTERIES

TRANS-
FORMERS

- 2-20 pole solid block
- Pluggable male-female connectors
- Closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-1.0mm² (30-16AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-   approved

SPECIFICATION

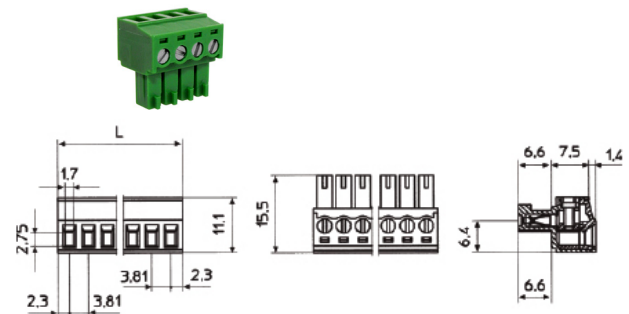
Rating	10A/200V
	UL=8A/300V, VDE&IMQ=10A/200V
Dielectric strength	≥2.5kV
Impulse withstand voltage	2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M2 steel zinc plated, 0.3Nm
Recommended PCB hole size	ø1.2mm

Female connector

TYPE NO.	POLES	LENGTH
CTB92HE/2	2	8.4mm
CTB92HE/3	3	12.2mm
CTB92HE/4	4	16mm
CTB92HE/5	5	19.8mm
CTB92HE/6	6	23.7mm
CTB92HE/7	7	27.5mm
CTB92HE/8	8	31.3mm
CTB92HE/9	9	35.1mm
CTB92HE/10	10	38.9mm
CTB92HE/11	11	42.7mm

TYPE NO.	POLES	LENGTH
CTB92HE/12	12	46.5mm
CTB92HE/13	13	50.3mm
CTB92HE/14	14	54.1mm
CTB92HE/15	15	57.9mm
CTB92HE/16	16	61.8mm
CTB92HE/17	17	65.6mm
CTB92HE/18	18	69.4mm
CTB92HE/19	19	73.3mm
CTB92HE/20	20	77mm

CTB92HE

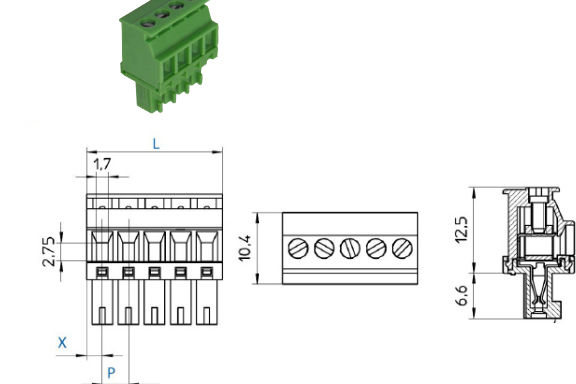


Female connector vertical (standard)

TYPE NO.	POLES	LENGTH
CTB92VE/2S	2	8.4mm
CTB92VE/3S	3	12.2mm
CTB92VE/4S	4	16mm
CTB92VE/5S	5	19.8mm
CTB92VE/6S	6	23.7mm
CTB92VE/7S	7	27.5mm
CTB92VE/8S	8	31.3mm
CTB92VE/9S	9	35.1mm
CTB92VE/10S	10	38.9mm
CTB92VE/11S	11	42.7mm

TYPE NO.	POLES	LENGTH
CTB92VE/12S	12	46.5mm
CTB92VE/13S	13	50.3mm
CTB92VE/14S	14	54.1mm
CTB92VE/15S	15	57.9mm
CTB92VE/16S	16	61.8mm
CTB92VE/17S	17	65.6mm
CTB92VE/18S	18	69.4mm
CTB92VE/19S	19	73.3mm
CTB92VE/20S	20	77mm

CTB92VE/S

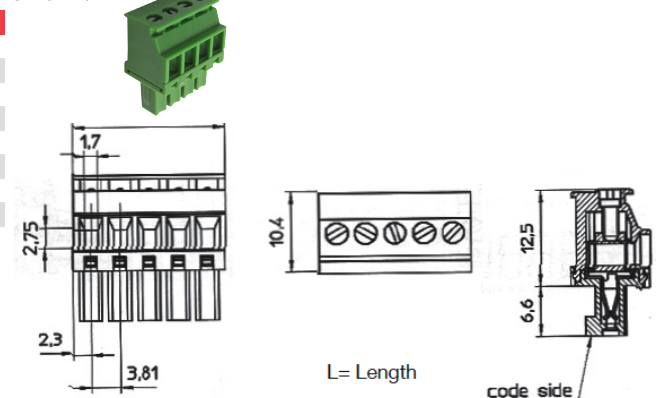


Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH
CTB92VE/2R	2	8.4mm
CTB92VE/3R	3	12.2mm
CTB92VE/4R	4	16mm
CTB92VE/5R	5	19.8mm
CTB92VE/6R	6	23.7mm
CTB92VE/7R	7	27.5mm
CTB92VE/8R	8	31.3mm
CTB92VE/9R	9	35.1mm
CTB92VE/10R	10	38.9mm
CTB92VE/11R	11	42.7mm

TYPE NO.	POLES	LENGTH
CTB92VE/12R	12	46.5mm
CTB92VE/13R	13	50.3mm
CTB92VE/14R	14	54.1mm
CTB92VE/15R	15	57.9mm
CTB92VE/16R	16	61.8mm
CTB92VE/17R	17	65.6mm
CTB92VE/18R	18	69.4mm
CTB92VE/19R	19	73.3mm
CTB92VE/20R	20	77mm

CTB92VE/R

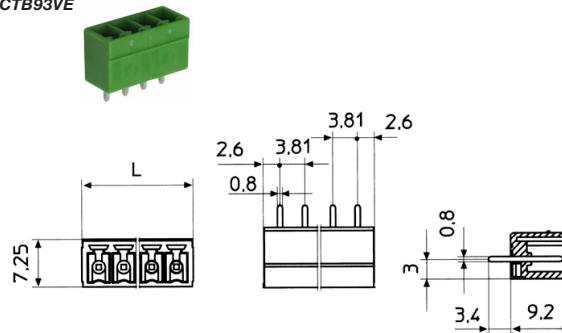


PCB TERMINAL BLOCKS

PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB93VE/2	2	9mm	CTB93VE/12	12	47.1mm
CTB93VE/3	3	12.8mm	CTB93VE/13	13	50.9mm
CTB93VE/4	4	16.6mm	CTB93VE/14	14	54.7mm
CTB93VE/5	5	20.4mm	CTB93VE/15	15	58.5mm
CTB93VE/6	6	24.3mm	CTB93VE/16	16	62.4mm
CTB93VE/7	7	28.1mm	CTB93VE/17	17	66.2mm
CTB93VE/8	8	31.9mm	CTB93VE/18	18	70mm
CTB93VE/9	9	35.4mm	CTB93VE/19	19	73.8mm
CTB93VE/10	10	39.5mm	CTB93VE/20	20	77.6mm
CTB93VE/11	11	43.3mm			

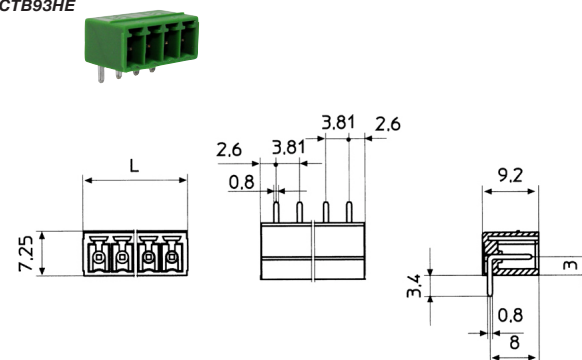
CTB93VE



PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB93HE/2	2	9mm	CTB93HE/12	12	47.1mm
CTB93HE/3	3	12.8mm	CTB93HE/13	13	50.9mm
CTB93HE/4	4	16.6mm	CTB93HE/14	14	54.7mm
CTB93HE/5	5	20.4mm	CTB93HE/15	15	58.5mm
CTB93HE/6	6	24.3mm	CTB93HE/16	16	62.4mm
CTB93HE/7	7	28.1mm	CTB93HE/17	17	66.2mm
CTB93HE/8	8	31.9mm	CTB93HE/18	18	70mm
CTB93HE/9	9	35.4mm	CTB93HE/19	19	73.8mm
CTB93HE/10	10	39.5mm	CTB93HE/20	20	77.6mm
CTB93HE/11	11	43.3mm			

CTB93HE



PCB Mounting Male Double Decker

- Space saving
- Double Decker
- 4-24 pole solid block
- Closed ends
- Coding keys available
- Moulded from green UL94-V0 flame retardant PA66

SPECIFICATION

Rating	10A/200V UL=8A/300V
Dielectric strength	≥2.5kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Copper alloy, NI & SN

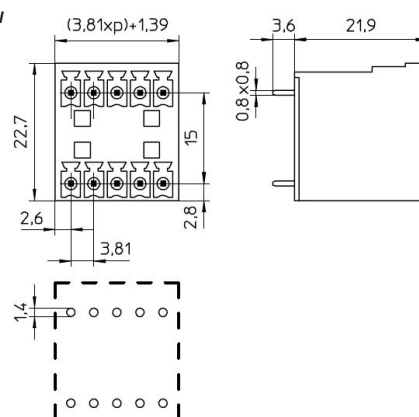
CTBDD93VE



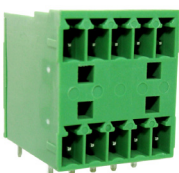
Vertical

TYPE NO.	POLES	LENGTH
CTBDD93VE/2	2	9mm
CTBDD93VE/3	3	12.8mm
CTBDD93VE/4	4	16.6mm
CTBDD93VE/5	5	20.4mm
CTBDD93VE/6	6	24.30mm
CTBDD93VE/7	7	28.1mm
CTBDD93VE/8	8	31.9mm
CTBDD93VE/9	9	35.7mm
CTBDD93VE/10	10	39.50mm
CTBDD93VE/11	11	43.3mm
CTBDD93VE/12	12	47.1mm

Vertical



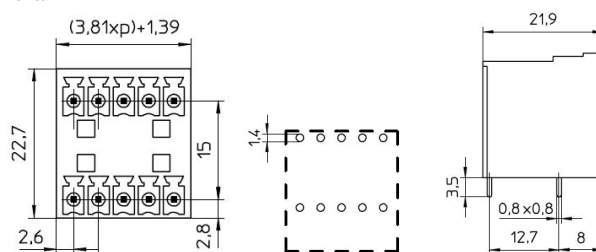
CTBDD93HE



Horizontal

TYPE NO.	POLES	LENGTH
CTBDD93HE/2	2	9mm
CTBDD93HE/3	3	12.8mm
CTBDD93HE/4	4	16.6mm
CTBDD93HE/5	5	20.4mm
CTBDD93HE/6	6	24.30mm
CTBDD93HE/7	7	28.1mm
CTBDD93HE/8	8	31.9mm
CTBDD93HE/9	9	35.7mm
CTBDD93HE/10	10	39.50mm
CTBDD93HE/11	11	43.3mm

Horizontal



PCB TERMINAL BLOCKS

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MINIATURE SWITCHES

LIMIT & SAFETY SWITCHES

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INTERFACE MODULES & SUPPORTS

RELAY BASES

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BATTERIES

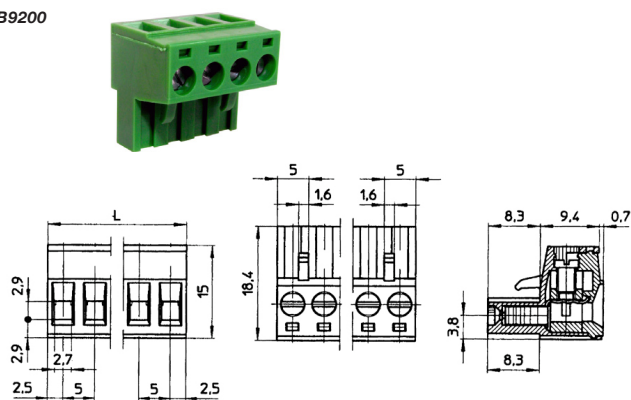
TRANSFORMERS

- 2-24 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm² (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

Rating	20A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	100°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

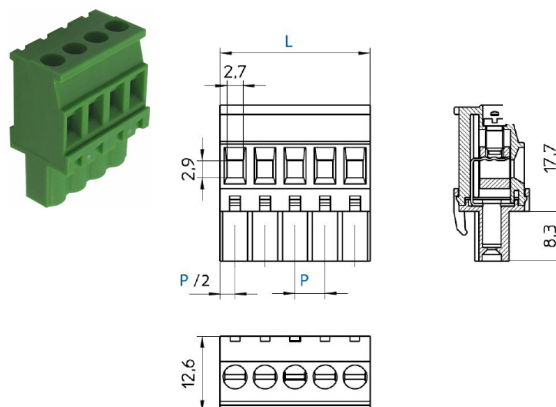
CTB9200

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9200/2A	2	10mm	CTB9200/14A	14	70mm
CTB9200/3A	3	15mm	CTB9200/15A	15	75mm
CTB9200/4A	4	20mm	CTB9200/16A	16	80mm
CTB9200/5A	5	25mm	CTB9200/17A	17	85mm
CTB9200/6A	6	30mm	CTB9200/18A	18	90mm
CTB9200/7A	7	35mm	CTB9200/19A	19	95mm
CTB9200/8A	8	40mm	CTB9200/20A	20	100mm
CTB9200/9A	9	45mm	CTB9200/21A	21	105mm
CTB9200/10A	10	50mm	CTB9200/22A	22	110mm
CTB9200/11A	11	55mm	CTB9200/23A	23	115mm
CTB9200/12A	12	60mm	CTB9200/24A	24	120mm
CTB9200/13A	13	65mm			



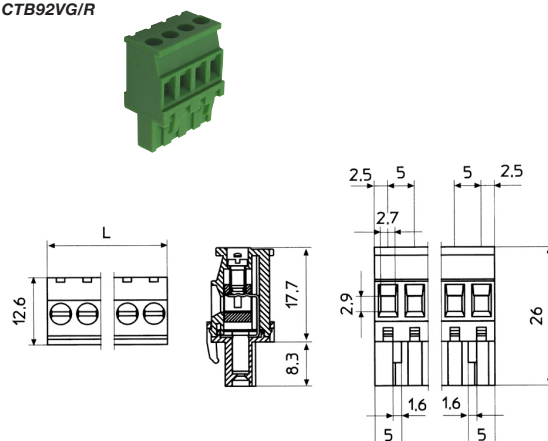
CTB92VG/S

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VG/2S	2	10mm	CTB92VG/14S	14	70mm
CTB92VG/3S	3	15mm	CTB92VG/15S	15	75mm
CTB92VG/4S	4	20mm	CTB92VG/16S	16	80mm
CTB92VG/5S	5	25mm	CTB92VG/17S	17	85mm
CTB92VG/6S	6	30mm	CTB92VG/18S	18	90mm
CTB92VG/7S	7	35mm	CTB92VG/19S	19	95mm
CTB92VG/8S	8	40mm	CTB92VG/20S	20	100mm
CTB92VG/9S	9	45mm	CTB92VG/21S	21	105mm
CTB92VG/10S	10	50mm	CTB92VG/22S	22	110mm
CTB92VG/11S	11	55mm	CTB92VG/23S	23	115mm
CTB92VG/12S	12	60mm	CTB92VG/24S	24	120mm
CTB92VG/13S	13	65mm			



CTB92VG/R

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VG/2R	2	10mm	CTB92VG/14R	14	70mm
CTB92VG/3R	3	15mm	CTB92VG/15R	15	75mm
CTB92VG/4R	4	20mm	CTB92VG/16R	16	80mm
CTB92VG/5R	5	25mm	CTB92VG/17R	17	85mm
CTB92VG/6R	6	30mm	CTB92VG/18R	18	90mm
CTB92VG/7R	7	35mm	CTB92VG/19R	19	95mm
CTB92VG/8R	8	40mm	CTB92VG/20R	20	100mm
CTB92VG/9R	9	45mm	CTB92VG/21R	21	105mm
CTB92VG/10R	10	50mm	CTB92VG/22R	22	110mm
CTB92VG/11R	11	55mm	CTB92VG/23R	23	115mm
CTB92VG/12R	12	60mm	CTB92VG/24R	24	120mm
CTB92VG/13R	13	65mm			

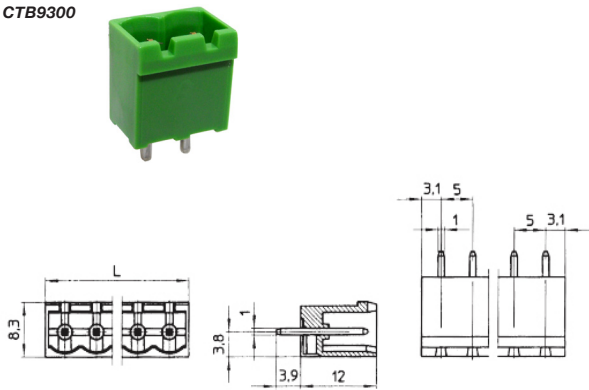


PCB TERMINAL BLOCKS

PCB mounting male vertical (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9300/2A	2	11.2mm	CTB9300/14A	14	71.2mm
CTB9300/3A	3	16.2mm	CTB9300/15A	15	76.2mm
CTB9300/4A	4	21.2mm	CTB9300/16A	16	81.2mm
CTB9300/5A	5	26.2mm	CTB9300/17A	17	86.2mm
CTB9300/6A	6	31.2mm	CTB9300/18A	18	91.2mm
CTB9300/7A	7	36.2mm	CTB9300/19A	19	96.2mm
CTB9300/8A	8	41.2mm	CTB9300/20A	20	101.2mm
CTB9300/9A	9	46.2mm	CTB9300/21A	21	106.2mm
CTB9300/10A	10	51.2mm	CTB9300/22A	22	111.2mm
CTB9300/11A	11	56.2	CTB9300/23A	23	116.2mm
CTB9300/12A	12	61.2mm	CTB9300/24A	24	121.2mm
CTB9300/13A	13	66.2mm			

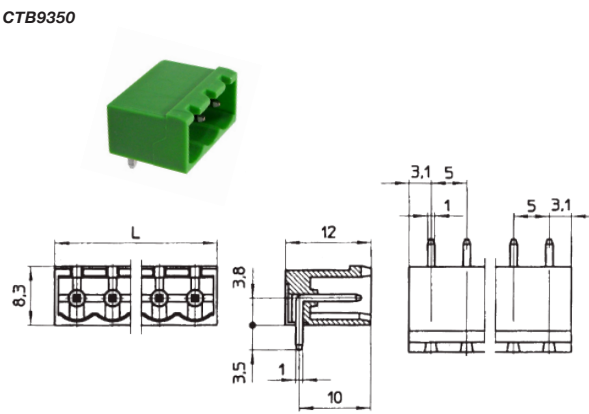
CTB9300



PCB mounting male horizontal (closed ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9350/2A	2	11.2mm	CTB9350/14A	14	71.2mm
CTB9350/3A	3	16.2mm	CTB9350/15A	15	76.2mm
CTB9350/4A	4	21.2mm	CTB9350/16A	16	81.2mm
CTB9350/5A	5	26.2mm	CTB9350/17A	17	86.2mm
CTB9350/6A	6	31.2mm	CTB9350/18A	18	91.2mm
CTB9350/7A	7	36.2mm	CTB9350/19A	19	96.2mm
CTB9350/8A	8	41.2mm	CTB9350/20A	20	101.2mm
CTB9350/9A	9	46.2mm	CTB9350/21A	21	106.2mm
CTB9350/10A	10	51.2mm	CTB9350/22A	22	111.2mm
CTB9350/11A	11	56.2	CTB9350/23A	23	116.2mm
CTB9350/12A	12	61.2mm	CTB9350/24A	24	121.2mm
CTB9350/13A	13	66.2mm			

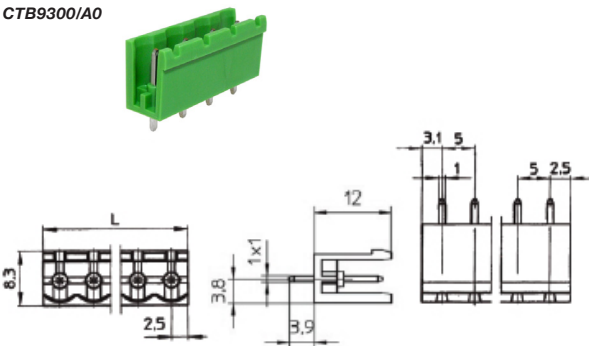
CTB9350



PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9300/2AO	2	10mm	CTB9300/14AO	14	70mm
CTB9300/3AO	3	15mm	CTB9300/15AO	15	75mm
CTB9300/4AO	4	20mm	CTB9300/16AO	16	80mm
CTB9300/5AO	5	25mm	CTB9300/17AO	17	85mm
CTB9300/6AO	6	30mm	CTB9300/18AO	18	90mm
CTB9300/7AO	7	35mm	CTB9300/19AO	19	95mm
CTB9300/8AO	8	40mm	CTB9300/20AO	20	100mm
CTB9300/9AO	9	45mm	CTB9300/21AO	21	105mm
CTB9300/10AO	10	50mm	CTB9300/22AO	22	110mm
CTB9300/11AO	11	55mm	CTB9300/23AO	23	115mm
CTB9300/12AO	12	60mm	CTB9300/24AO	24	120mm
CTB9300/13AO	13	65mm			

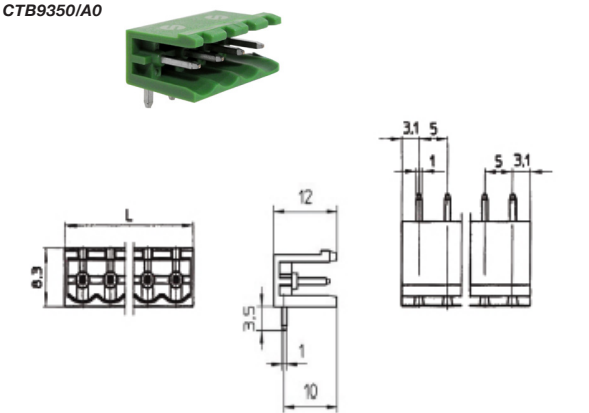
CTB9300/AO



PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9350/2AO	2	10mm	CTB9350/14AO	14	70mm
CTB9350/3AO	3	15mm	CTB9350/15AO	15	75mm
CTB9350/4AO	4	20mm	CTB9350/16AO	16	80mm
CTB9350/5AO	5	25mm	CTB9350/17AO	17	85mm
CTB9350/6AO	6	30mm	CTB9350/18AO	18	90mm
CTB9350/7AO	7	35mm	CTB9350/19AO	19	95mm
CTB9350/8AO	8	40mm	CTB9350/20AO	20	100mm
CTB9350/9AO	9	45mm	CTB9350/21AO	21	105mm
CTB9350/10AO	10	50mm	CTB9350/22AO	22	110mm
CTB9350/11AO	11	55mm	CTB9350/23AO	23	115mm
CTB9350/12AO	12	60mm	CTB9350/24AO	24	120mm
CTB9350/13AO	13	65mm			

CTB9350/AO



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PCB TERMINAL BLOCKS

5.08mm Pitch Pluggable Rising Clamp Terminal Blocks

PCB
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BATTERIES

TRANS-
FORMERS

- 2-24 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2-2.5mm² (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

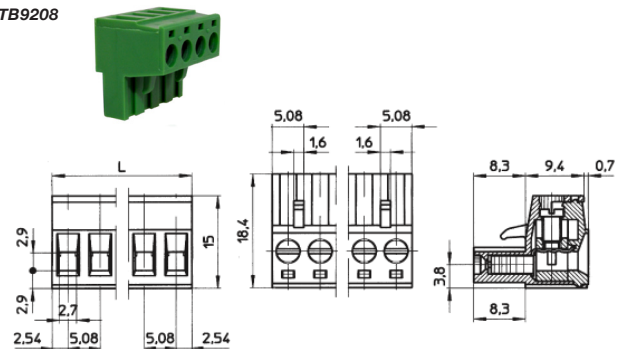
SPECIFICATION

Rating	12A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

Female connector

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB9208/2	2	10.2mm	CTB9208/14	14	71.1mm
CTB9208/3	3	15.2mm	CTB9208/15	15	76.2mm
CTB9208/4	4	20.3mm	CTB9208/16	16	81.3mm
CTB9208/5	5	25.4mm	CTB9208/17	17	86.4mm
CTB9208/6	6	30.5mm	CTB9208/18	18	91.4mm
CTB9208/7	7	35.6mm	CTB9208/19	19	96.5mm
CTB9208/8	8	40.6mm	CTB9208/20	20	101.6mm
CTB9208/9	9	45.7mm	CTB9208/21	21	106.7mm
CTB9208/10	10	50.8mm	CTB9208/22	22	111.8mm
CTB9208/11	11	55.9mm	CTB9208/23	23	116.8mm
CTB9208/12	12	61mm	CTB9208/24	24	121.9mm
CTB9208/13	13	66mm			

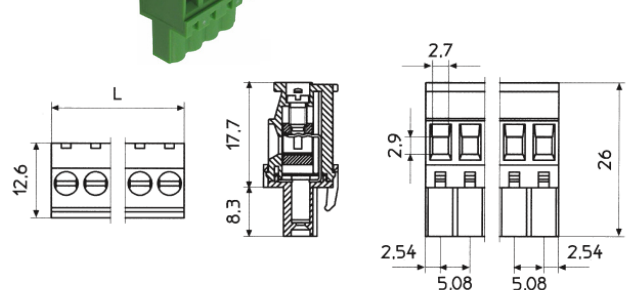
CTB9208



Female connector vertical (standard)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VJ/2S	2	10.2mm	CTB92VJ/14S	14	71.1mm
CTB92VJ/3S	3	15.2mm	CTB92VJ/15S	15	76.2mm
CTB92VJ/4S	4	20.3mm	CTB92VJ/16S	16	81.3mm
CTB92VJ/5S	5	25.4mm	CTB92VJ/17S	17	86.4mm
CTB92VJ/6S	6	30.5mm	CTB92VJ/18S	18	91.4mm
CTB92VJ/7S	7	35.6mm	CTB92VJ/19S	19	96.5mm
CTB92VJ/8S	8	40.6mm	CTB92VJ/20S	20	101.6mm
CTB92VJ/9S	9	45.7mm	CTB92VJ/21S	21	106.7mm
CTB92VJ/10S	10	50.8mm	CTB92VJ/22S	22	111.8mm
CTB92VJ/11S	11	55.9mm	CTB92VJ/23S	23	116.8mm
CTB92VJ/12S	12	61mm	CTB92VJ/24S	24	121.9mm
CTB92VJ/13S	13	66mm			

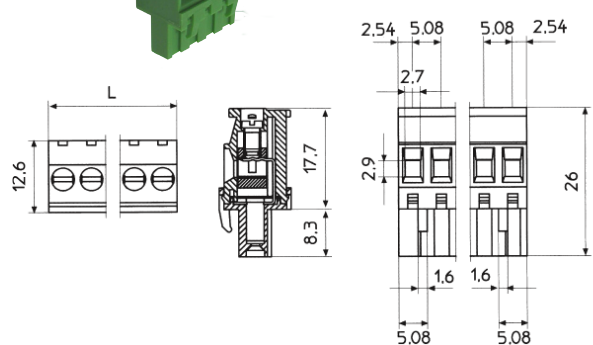
CTB92VJ/S



Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH	TYPE NO.	POLES	LENGTH
CTB92VJ/2R	2	10.2mm	CTB92VJ/14R	14	71.1mm
CTB92VJ/3R	3	15.2mm	CTB92VJ/15R	15	76.2mm
CTB92VJ/4R	4	20.3mm	CTB92VJ/16R	16	81.3mm
CTB92VJ/5R	5	25.4mm	CTB92VJ/17R	17	86.4mm
CTB92VJ/6R	6	30.5mm	CTB92VJ/18R	18	91.4mm
CTB92VJ/7R	7	35.6mm	CTB92VJ/19R	19	96.5mm
CTB92VJ/8R	8	40.6mm	CTB92VJ/20R	20	101.6mm
CTB92VJ/9R	9	45.7mm	CTB92VJ/21R	21	106.7mm
CTB92VJ/10R	10	50.8mm	CTB92VJ/22R	22	111.8mm
CTB92VJ/11R	11	55.9mm	CTB92VJ/23R	23	116.8mm
CTB92VJ/12R	12	61mm	CTB92VJ/24R	24	121.9mm
CTB92VJ/13R	13	66mm			

CTB92VJ/R



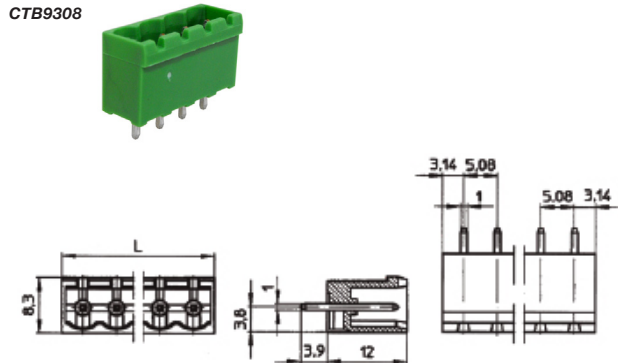
PCB TERMINAL BLOCKS

PCB mounting male vertical (closed end)

TYPE NO.	POLES	LENGTH
CTB9308/2	2	11.4mm
CTB9308/3	3	16.4mm
CTB9308/4	4	21.5mm
CTB9308/5	5	26.6mm
CTB9308/6	6	31.7mm
CTB9308/7	7	36.78mm
CTB9308/8	8	41.8mm
CTB9308/9	9	46.9mm
CTB9308/10	10	52mm
CTB9308/11	11	57.1mm
CTB9308/12	12	67.2mm
CTB9308/13	13	67.2mm

TYPE NO.	POLES	LENGTH
CTB9308/14	14	72.3mm
CTB9308/15	15	77.4mm
CTB9308/16	16	82.5mm
CTB9308/17	17	87.6mm
CTB9308/18	18	92.6mm
CTB9308/19	19	97.7mm
CTB9308/20	20	102.8mm
CTB9308/21	21	107.9mm
CTB9308/22	22	113mm
CTB9308/23	23	118mm
CTB9308/24	24	123.1mm

CTB9308

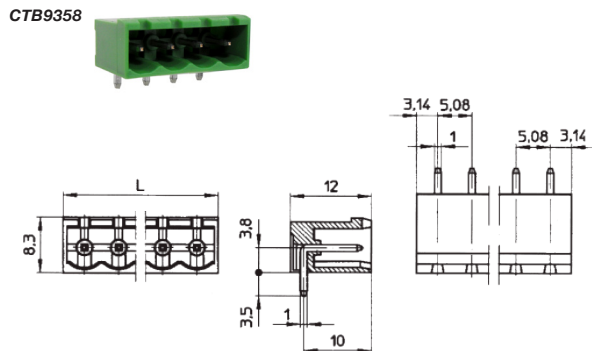


PCB mounting male horizontal (closed end)

TYPE NO.	POLES	LENGTH
CTB9358/2	2	11.4mm
CTB9358/3	3	16.4mm
CTB9358/4	4	21.5mm
CTB9358/5	5	26.6mm
CTB9358/6	6	31.7mm
CTB9358/7	7	36.78mm
CTB9358/8	8	41.8mm
CTB9358/9	9	46.9mm
CTB9358/10	10	52mm
CTB9358/11	11	57.1mm
CTB9358/12	12	67.2mm
CTB9358/13	13	67.2mm

TYPE NO.	POLES	LENGTH
CTB9358/14	14	72.3mm
CTB9358/15	15	77.4mm
CTB9358/16	16	82.5mm
CTB9358/17	17	87.6mm
CTB9358/18	18	92.6mm
CTB9358/19	19	97.7mm
CTB9358/20	20	102.8mm
CTB9358/21	21	107.9mm
CTB9358/22	22	113mm
CTB9358/23	23	118mm
CTB9358/24	24	123.1mm

CTB9358

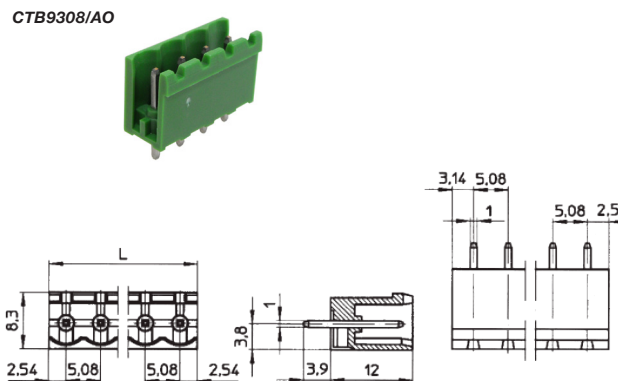


PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH
CTB9308/2AO	2	10.2mm
CTB9308/3AO	3	15.2mm
CTB9308/4AO	4	20.3mm
CTB9308/5AO	5	25.4mm
CTB9308/6AO	6	30.5mm
CTB9308/7AO	7	35.6mm
CTB9308/8AO	8	40.6mm
CTB9308/9AO	9	45.7mm
CTB9308/10AO	10	50.8mm
CTB9308/11AO	11	55.9mm
CTB9308/12AO	12	61mm
CTB9308/13AO	13	66mm

TYPE NO.	POLES	LENGTH
CTB9308/14AO	14	71.1mm
CTB9308/15AO	15	76.2mm
CTB9308/16AO	16	81.3mm
CTB9308/17AO	17	86.4mm
CTB9308/18AO	18	91.4mm
CTB9308/19AO	19	96.5mm
CTB9308/20AO	20	101.6mm
CTB9308/21AO	21	106.7mm
CTB9308/22AO	22	111.7mm
CTB9308/23AO	23	116.8mm
CTB9308/24AO	24	121.9mm

CTB9308/AO

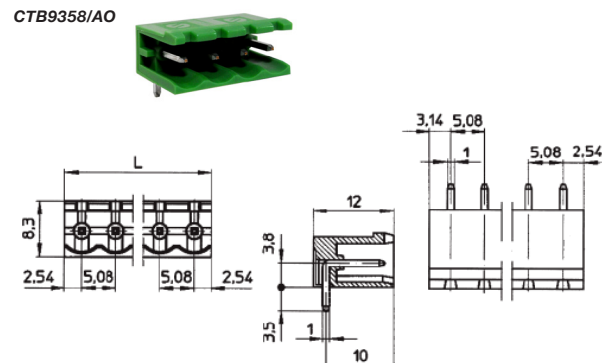


PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH
CTB9358/2AO	2	10.2mm
CTB9358/3AO	3	15.2mm
CTB9358/4AO	4	20.3mm
CTB9358/5AO	5	25.4mm
CTB9358/6AO	6	30.5mm
CTB9358/7AO	7	35.6mm
CTB9358/8AO	8	40.6mm
CTB9358/9AO	9	45.7mm
CTB9358/10AO	10	50.8mm
CTB9358/11AO	11	55.9mm
CTB9358/12AO	12	61mm
CTB9358/13AO	13	66mm

TYPE NO.	POLES	LENGTH
CTB9358/14AO	14	71.1mm
CTB9358/15AO	15	76.2mm
CTB9358/16AO	16	81.3mm
CTB9358/17AO	17	86.4mm
CTB9358/18AO	18	91.4mm
CTB9358/19AO	19	96.5mm
CTB9358/20AO	20	101.6mm
CTB9358/21AO	21	106.7mm
CTB9358/22AO	22	111.7mm
CTB9358/23AO	23	116.8mm
CTB9358/24AO	24	121.9mm

CTB9358/AO



PCB
TERMINAL
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SUPPORTS

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FORMERS

PCB TERMINAL BLOCKS

5.08mm Pitch Panel Mounting Terminal Blocks

- Panel mounting pluggable terminal block header
- Compatible with CTB9208 and CTB92VJ female plugs
- Polarised mouldings
- Rising clamp terminals accept wires of 0.2mm² to 3.3mm² (24-12AWG)
- Moulded in green UL94-V0 flame retardant PA
- Captive screws

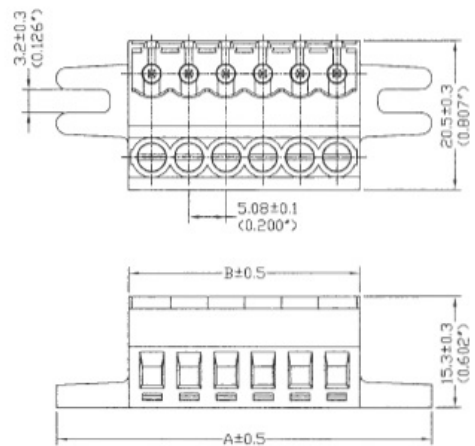
CTBA9308/P



SPECIFICATION

Rating	10A/300V
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Brass, tin plated
Wire clamp	Brass, tin plated
Screw/torque	M3 steel zinc plated, 4.5lb-inch

TYPE NO.	POLES	LENGTH	
		A (mm)	B(mm)
CTBA9308/2P	2	31.24	11.44
CTBA9308/3P	3	36.32	16.52
CTBA9308/4P	4	41.40	21.60
CTBA9308/5P	5	46.48	26.68
CTBA9308/6P	6	51.56	31.76
CTBA9308/7P	7	56.64	36.84
CTBA9308/8P	8	61.72	41.92
CTBA9308/9P	9	66.80	47.00
CTBA9308/10P	10	71.88	52.08
CTBA9308/11P	11	76.96	57.16
CTBA9308/12P	12	82.04	62.24
CTBA9308/13P	13	87.12	67.32
CTBA9308/14P	14	92.20	72.40
CTBA9308/15P	15	97.28	77.48
CTBA9308/16P	16	102.36	82.56
CTBA9308/17P	17	107.44	87.64
CTBA9308/18P	18	112.52	92.72
CTBA9308/19P	19	117.60	97.80
CTBA9308/20P	20	122.68	102.88
CTBA9308/21P	21	127.76	107.96
CTBA9308/22P	22	132.84	113.04
CTBA9308/23P	23	137.92	118.12
CTBA9308/24P	24	143.00	123.20



PCB TERMINAL BLOCKS

5.08mm PCB Mounting Double Decker Terminal Blocks

- Space saving
- Double decker
- 4(2x2) and 6(2x3) pole interlocking
- Open ended modules
- Professional rising clamp terminals
- Guided pin alignment
- Available pre-assembled
- Polarised mouldings
-  approved

CTBDD93HJ



SPECIFICATION

Rating	20A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN

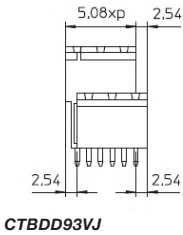
Vertical

5.08mm

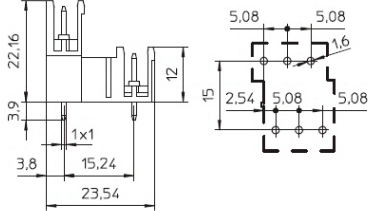
TYPE NO.	POLES	LENGTH
CTBDD93VJ/2	4	12.7mm
CTBDD93VJ/3	6	17.8mm
CTBDD93VJ/4	8	22.9mm
CTBDD93VJ/5	10	27.9mm
CTBDD93VJ/6	12	33mm
CTBDD93VJ/7	14	38.1mm
CTBDD93VJ/8	16	43.2mm
CTBDD93VJ/9	18	48.3mm
CTBDD93VJ/10	20	53.3mm
CTBDD93VJ/11	22	58.4mm
CTBDD93VJ/12	24	63.5mm

5mm

TYPE NO.	POLES	LENGTH
CTBDD93VG/2	4	12.5mm
CTBDD93VG/3	6	17.5mm
CTBDD93VG/4	8	22.5mm
CTBDD93VG/5	10	27.5mm
CTBDD93VG/6	12	32.5mm
CTBDD93VG/7	14	37.5mm
CTBDD93VG/8	16	42.5mm
CTBDD93VG/9	18	47.5mm
CTBDD93VG/10	20	52.5mm
CTBDD93VG/11	22	57.5mm
CTBDD93VG/12	24	62.5mm



CTBDD93VJ



CTBDD93VG

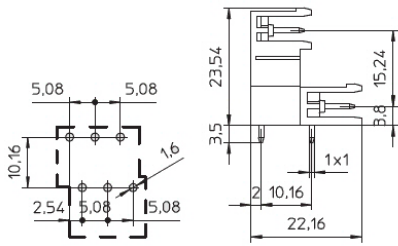
Horizontal

5.08mm

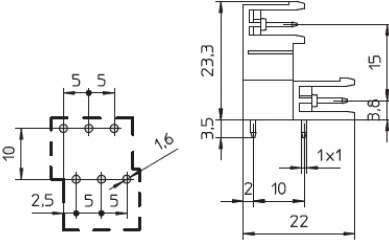
TYPE NO.	POLES	LENGTH
CTBDD93HJ/2	4	12.7mm
CTBDD93HJ/3	6	17.8mm
CTBDD93HJ/4	8	22.9mm
CTBDD93HJ/5	10	27.9mm
CTBDD93HJ/6	12	33mm
CTBDD93HJ/7	14	38.1mm
CTBDD93HJ/8	16	43.2mm
CTBDD93HJ/9	18	48.3mm
CTBDD93HJ/10	20	53.3mm
CTBDD93HJ/11	22	58.4mm
CTBDD93HJ/12	24	63.5mm

5mm

TYPE NO.	POLES	LENGTH
CTBDD93HG/2	4	12.5mm
CTBDD93HG/3	6	17.5mm
CTBDD93HG/4	8	22.5mm
CTBDD93HG/5	10	27.5mm
CTBDD93HG/6	12	32.5mm
CTBDD93HG/7	14	37.5mm
CTBDD93HG/8	16	42.5mm
CTBDD93HG/9	18	47.5mm
CTBDD93HG/10	20	52.5mm
CTBDD93HG/11	22	57.5mm
CTBDD93HG/12	24	62.5mm



CTBDD93HJ



CTBDD93HG



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CAMDENBOSS
ELECTRONICS & ENCLOSURES

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

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PCB TERMINAL BLOCKS

PCB
TERMINAL
BLOCKS

5.08mm Pitch PCB Mounting Female Plugs, PCB Mount

INTER-
CONNECTION

PCB mounting female plugs for mating with male headers for board to board connections.

FUSES &
FUSE-
HOLDERS

- 2 and 3 pole interlockable
- Flanged option (not interlockable)
- Horizontal & vertical orientations
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Dual pin row for stability on the PCB
- Mate with PCB headers such as CTB9308(FL) and CTB9358(FL) and male screwless pluggable CSTB9308
- GWT and THR materials on request
- Guided pin alignment
-    approved

LEDs &
INDICATORS

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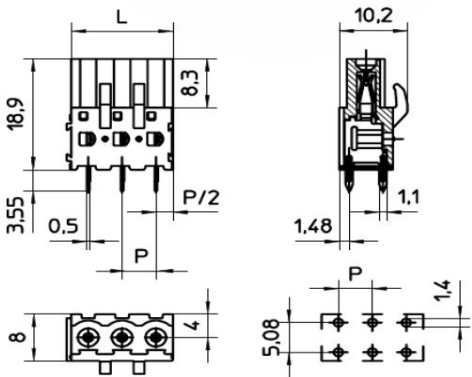
SPECIFICATION

Rating	12A/300V
	UL=12A/300V, VDE&IMQ=12A/300V
Dielectric strength	$\geq 2.5\text{kV}$
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN

Vertical connector

TYPE NO.	POLES	LENGTH
CTB97VJ/2	2	10.16mm
CTB97VJ/3	3	15.24mm
CTB97VJ/4	4	20.32mm
CTB97VJ/5	5	25.4mm
CTB97VJ/6	6	30.48mm
CTB97VJ/7	7	35.56mm
CTB97VJ/8	8	40.64mm
CTB97VJ/9	9	45.72mm
CTB97VJ/10	10	50.8mm
CTB97VJ/11	11	55.88mm
CTB97VJ/12	12	60.96mm

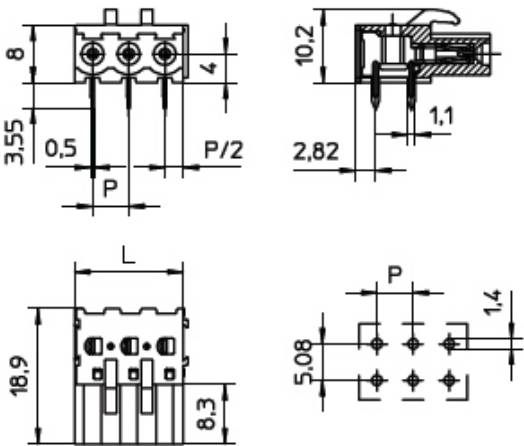
CTB97VJ



Horizontal connector

TYPE NO.	POLES	LENGTH
CTB97HJ/2	2	10.16mm
CTB97HJ/3	3	15.24mm
CTB97HJ/4	4	20.32mm
CTB97HJ/5	5	25.4mm
CTB97HJ/6	6	30.48mm
CTB97HJ/7	7	35.56mm
CTB97HJ/8	8	40.64mm
CTB97HJ/9	9	45.72mm
CTB97HJ/10	10	50.8mm
CTB97HJ/11	11	55.88mm
CTB97HJ/12	12	60.96mm

CTB97HJ

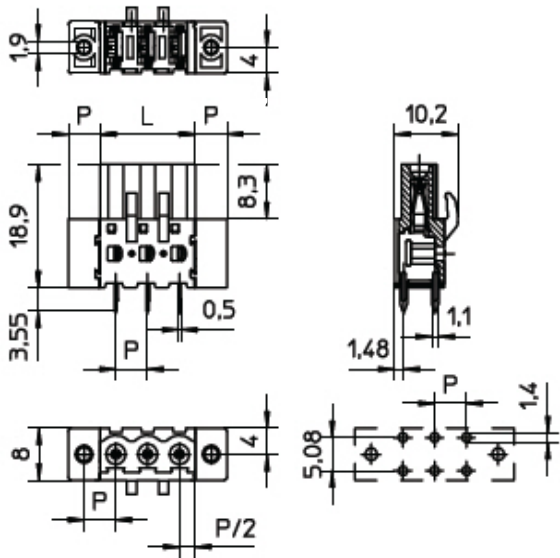


PCB TERMINAL BLOCKS

Vertical connector, Flanged

TYPE NO.	POLES	LENGTH
CTB97VJ/2FL	2	20.32mm
CTB97VJ/3FL	3	25.4mm

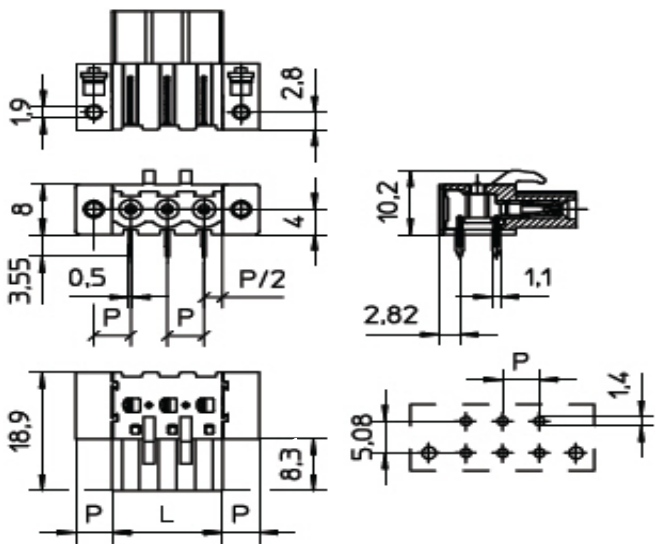
CTB97VJ/FL



Horizontal connector, Flanged

TYPE NO.	POLES	LENGTH
CTB97HJ/2FL	2	20.32mm
CTB97HJ/3FL	3	25.4mm

CTB97HJ/FL



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PCB TERMINAL BLOCKS

Top Entry Pluggable Terminal Blocks

- Vertical plug-in terminal blocks with wire entry inline with screw orientation
- Cage clamp connection
- Screw flange option
- Polarised mouldings mate with CTB93XX and CTB93XX/FL series headers

- Moulded in green UL94-V0 flame retardant PA
- 0.2-2mm² (24-12AWG) stranded cable
- UL, CE, RoHS approved

SPECIFICATION

Rating	16A/320V UL=300V, VDE=380V
Dielectric strength	2kV
Insulation resistance	>2MΩ
Working temperature	-40°C to +105°C
Moulding	UL94-V0 flame retardant PA66
Pin/terminal	Tinned phosphor bronze
Cage clamp	Nickel copper flash brass
Screw/torque	M3 steel zinc plated, 0.5Nm

5mm, 5.08mm Vertical Top Entry Plug

5mm

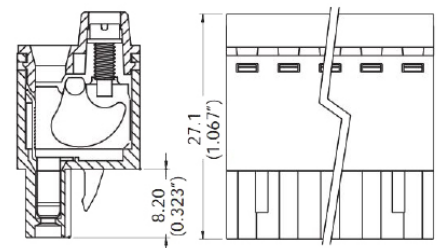
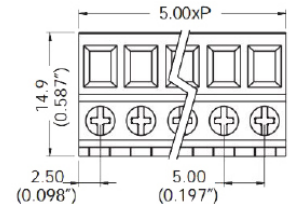
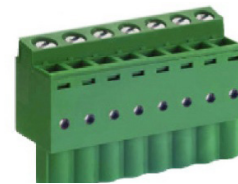
TYPE NO.	POLES	LENGTH
CTB92TG/2	2	10mm
CTB92TG/3	3	15mm
CTB92TG/4	4	20mm
CTB92TG/5	5	25mm
CTB92TG/6	6	30mm
CTB92TG/7	7	35mm
CTB92TG/8	8	40mm
CTB92TG/9	9	45mm
CTB92TG/10	10	50mm
CTB92TG/11	11	55mm
CTB92TG/12	12	60mm
CTB92TG/13	13	65mm
CTB92TG/14	14	70mm
CTB92TG/15	15	75mm
CTB92TG/16	16	80mm
CTB92TG/17	17	85mm
CTB92TG/18	18	90mm
CTB92TG/19	19	95mm
CTB92TG/20	20	100mm
CTB92TG/21	21	105mm
CTB92TG/22	22	110mm
CTB92TG/23	23	115mm
CTB92TG/24	24	120mm

5.08mm

TYPE NO.	POLES	LENGTH
CTB92TJ/2	2	10.2mm
CTB92TJ/3	3	15.2mm
CTB92TJ/4	4	20.3mm
CTB92TJ/5	5	25.4mm
CTB92TJ/6	6	30.5mm
CTB92TJ/7	7	35.6mm
CTB92TJ/8	8	40.6mm
CTB92TJ/9	9	45.7mm
CTB92TJ/10	10	50.8mm
CTB92TJ/11	11	55.9mm
CTB92TJ/12	12	61mm
CTB92TJ/13	13	66mm
CTB92TJ/14	14	71.1mm
CTB92TJ/15	15	76.2mm
CTB92TJ/16	16	81.3mm
CTB92TJ/17	17	86.4mm
CTB92TJ/18	18	91.4mm
CTB92TJ/19	19	96.5mm
CTB92TJ/20	20	101.6mm
CTB92TJ/21	21	106.7mm
CTB92TJ/22	22	111.8mm
CTB92TJ/23	23	116.8mm
CTB92TJ/24	24	121.9mm

CTB92TG

CTB92TJ



5mm, 5.08mm Flanged Vertical Top Entry Plug

5mm

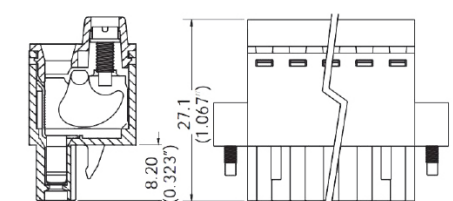
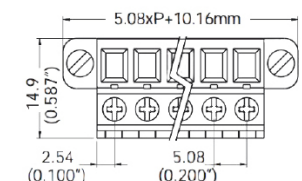
TYPE NO.	POLES	LENGTH
CTB92TG/2FL	2	20mm
CTB92TG/3FL	3	25mm
CTB92TG/4FL	4	30mm
CTB92TG/5FL	5	35mm
CTB92TG/6FL	6	40mm
CTB92TG/7FL	7	45mm
CTB92TG/8FL	8	50mm
CTB92TG/9FL	9	55mm
CTB92TG/10FL	10	60mm
CTB92TG/11FL	11	65mm
CTB92TG/12FL	12	70mm
CTB92TG/13FL	13	75mm
CTB92TG/14FL	14	80mm
CTB92TG/15FL	15	85mm
CTB92TG/16FL	16	90mm
CTB92TG/17FL	17	95mm
CTB92TG/18FL	18	100mm
CTB92TG/19FL	19	105.5mm
CTB92TG/20FL	20	110mm
CTB92TG/21FL	21	115mm
CTB92TG/22FL	22	120mm
CTB92TG/23FL	23	125mm
CTB92TG/24FL	24	130mm

5.08mm

TYPE NO.	POLES	LENGTH
CTB92TJ/2FL	2	20.3
CTB92TJ/3FL	3	25.4
CTB92TJ/4FL	4	30.5
CTB92TJ/5FL	5	35.6
CTB92TJ/6FL	6	40.6
CTB92TJ/7FL	7	45.7
CTB92TJ/8FL	8	50.8
CTB92TJ/9FL	9	55.9
CTB92TJ/10FL	10	61.0
CTB92TJ/11FL	11	66.0
CTB92TJ/12FL	12	71.1
CTB92TJ/13FL	13	76.2
CTB92TJ/14FL	14	81.3
CTB92TJ/15FL	15	86.4
CTB92TJ/16FL	16	91.4
CTB92TJ/17FL	17	96.5
CTB92TJ/18FL	18	101.6
CTB92TJ/19FL	19	106.7
CTB92TJ/20FL	20	111.8
CTB92TJ/21FL	21	116.8
CTB92TJ/22FL	22	121.9
CTB92TJ/23FL	23	127.0
CTB92TJ/24FL	24	132.0

CTB92TG/FL

CTB92TJ/FL



PCB TERMINAL BLOCKS

5.08mm Pitch Screwless Pluggable Terminal Blocks

- 2-24 pole solid block (female)
- 2-16 pole solid block (male)
- Pluggable female and male connectors
- Also compatible with conventional 5.08mm pluggable terminal blocks
- Screwless - wire retained by cage spring
- Optional mounting clip, CSTB9C can be removed after fitting
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- 0.2-2.5mm² (24-14AWG) solid & stranded cable
-  approved
- GWT compliant version also available

Female connector

TYPE NO.	POLES	LENGTH
CSTB9208/2	2	10.2mm
CSTB9208/3	3	15.2mm
CSTB9208/4	4	20.3mm
CSTB9208/5	5	25.4mm
CSTB9208/6	6	30.5mm
CSTB9208/7	7	35.6mm
CSTB9208/8	8	40.6mm
CSTB9208/9	9	45.7mm
CSTB9208/10	10	50.8mm
CSTB9208/11	11	55.9mm
CSTB9208/12	12	61mm
CSTB9208/13	13	66mm

TYPE NO.	POLES	LENGTH
CSTB9208/14	14	71.1mm
CSTB9208/15	15	76.2mm
CSTB9208/16	16	81.3mm
CSTB9208/17	17	86.4mm
CSTB9208/18	18	91.4mm
CSTB9208/19	19	96.5mm
CSTB9208/20	20	101.6mm
CSTB9208/21	21	106.7mm
CSTB9208/22	22	111.8mm
CSTB9208/23	23	116.8mm
CSTB9208/24	24	121.9mm

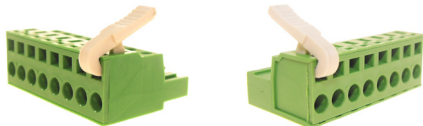
Male connector

TYPE NO.	POLES	LENGTH
CSTB9308/2	2	11.36mm
CSTB9308/3	3	16.44mm
CSTB9308/4	4	21.52mm
CSTB9308/5	5	26.6mm
CSTB9308/6	6	31.68mm
CSTB9308/7	7	36.76mm
CSTB9308/8	8	41.84mm
CSTB9308/9	9	46.92mm
CSTB9308/10	10	52mm
CSTB9308/11	11	57.08mm
CSTB9308/12	12	62.16mm
CSTB9308/13	13	67.24mm

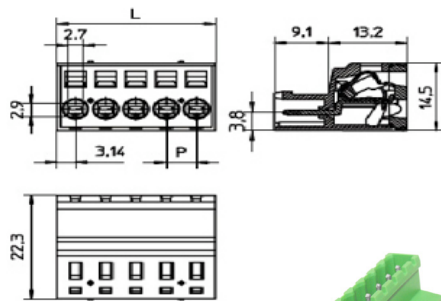
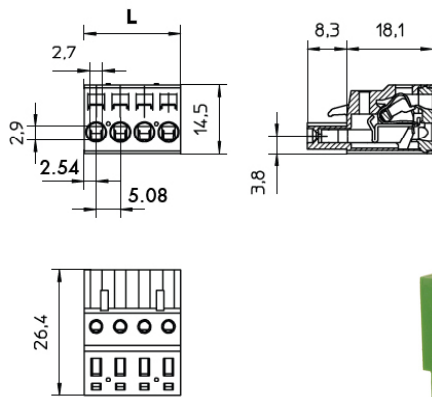
TYPE NO.	POLES	LENGTH
CSTB9308/14	14	72.32mm
CSTB9308/15	15	77.4mm
CSTB9308/16	16	82.48mm

Mounting Clip

TYPE NO.
CSTB9C



SPECIFICATION	
Rating	18A/320V UL=14A/300V, IMQ=18A/320V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA66
Clamp/spring	Nickel copper flash brass



CSTB9308



PCB
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PCB TERMINAL BLOCKS

7.5mm & 7.62mm Pitch Pluggable Rising Clamp Terminal Blocks

- 2-12 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA

- Professional rising clamp terminals
- 0.2-2.5mm² (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

SPECIFICATION

Rating	20A/500V
Dielectric strength	UL=12A/300V, VDE&IMQ=20A/500V
Impulse withstand voltage	≥3kV
Working temperature	6kV
Moulding	110°C
Pin/terminal	UL94-V0 flame retardant PA
Rising clamp	Copper alloy, NI & SN
Screw/torque	Copper alloy, NI & SN
Recommended PCB hole size	M3 steel zinc plated, 0.5Nm ø1.4mm

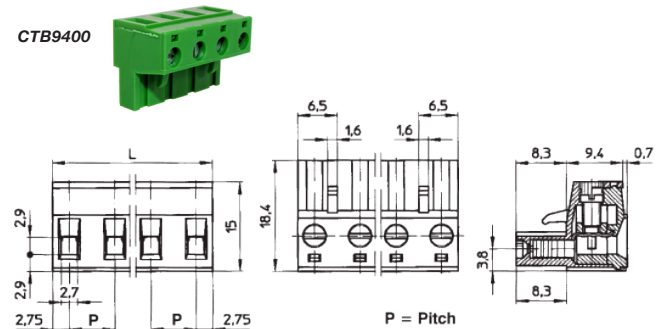
7.5mm

TYPE NO.	POLES	LENGTH
CTB9400/2	2	13mm
CTB9400/3	3	20.5mm
CTB9400/4	4	28mm
CTB9400/5	5	35.5mm
CTB9400/6	6	43mm
CTB9400/7	7	50.5mm
CTB9400/8	8	58mm
CTB9400/9	9	65.5mm
CTB9400/10	10	73mm
CTB9400/11	11	80.5mm
CTB9400/12	12	88mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9408/2	2	13.2mm
CTB9408/3	3	20.9mm
CTB9408/4	4	28.5mm
CTB9408/5	5	36.1mm
CTB9408/6	6	43.7mm
CTB9408/7	7	51.3mm
CTB9408/8	8	59mm
CTB9408/9	9	66.6mm
CTB9408/10	10	74.2mm
CTB9408/11	11	81.8mm
CTB9408/12	12	89.4mm

CTB9400



PCB mounting male vertical (closed ended)

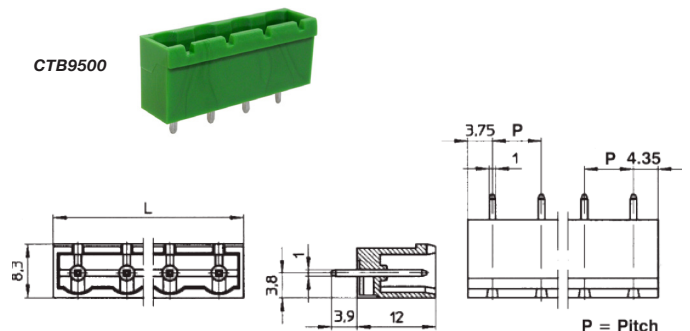
7.5mm

TYPE NO.	POLES	LENGTH
CTB9500/2	2	15mm
CTB9500/3	3	22.5mm
CTB9500/4	4	30mm
CTB9500/5	5	37.5mm
CTB9500/6	6	45mm
CTB9500/7	7	52.5mm
CTB9500/8	8	60mm
CTB9500/9	9	67.5mm
CTB9500/10	10	75mm
CTB9500/11	11	82.5mm
CTB9500/12	12	90mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9508/2	2	15.2mm
CTB9508/3	3	22.8mm
CTB9508/4	4	30.4mm
CTB9508/5	5	38.1mm
CTB9508/6	6	45.7mm
CTB9508/7	7	53.3mm
CTB9508/8	8	60.9mm
CTB9508/9	9	68.6mm
CTB9508/10	10	76.2mm
CTB9508/11	11	83.8mm
CTB9508/12	12	91.4mm

CTB9500



PCB mounting male horizontal (closed ended)

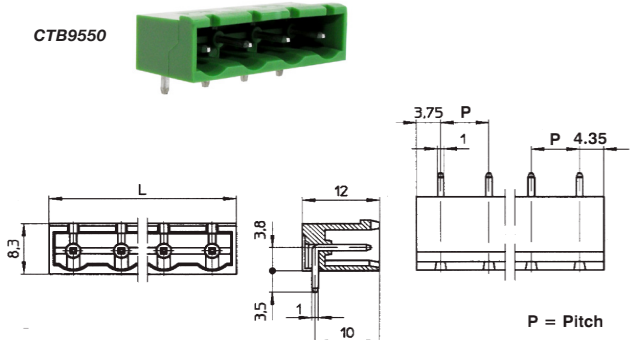
7.5mm

TYPE NO.	POLES	LENGTH
CTB9550/2	2	15mm
CTB9550/3	3	22.5mm
CTB9550/4	4	30mm
CTB9550/5	5	37.5mm
CTB9550/6	6	45mm
CTB9550/7	7	52.5mm
CTB9550/8	8	60mm
CTB9550/9	9	67.5mm
CTB9550/10	10	75mm
CTB9550/11	11	82.5mm
CTB9550/12	12	90mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9558/2	2	15.2mm
CTB9558/3	3	22.8mm
CTB9558/4	4	30.4mm
CTB9558/5	5	38.1mm
CTB9558/6	6	45.7mm
CTB9558/7	7	53.3mm
CTB9558/8	8	60.2mm
CTB9558/9	9	68.5mm
CTB9558/10	10	76.2mm
CTB9558/11	11	83.8mm
CTB9558/12	12	91.4mm

CTB9550



PCB TERMINAL BLOCKS

PCB mounting male vertical (open ended)

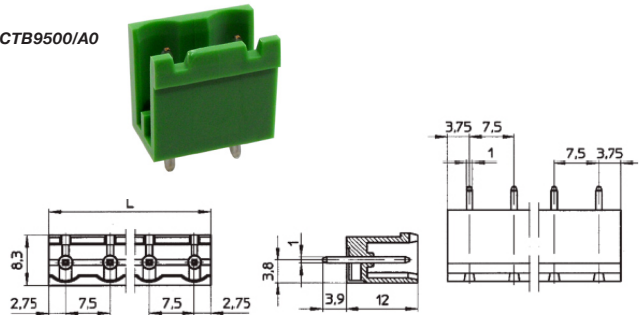
7.5mm

TYPE NO.	POLES	LENGTH
CTB9500/2AO	2	13mm
CTB9500/3AO	3	20.5mm
CTB9500/4AO	4	28mm
CTB9500/5AO	5	35.5mm
CTB9500/6AO	6	43mm
CTB9500/7AO	7	50.5mm
CTB9500/8AO	8	58mm
CTB9500/9AO	9	65.5mm
CTB9500/10AO	10	73mm
CTB9500/11AO	11	80.5mm
CTB9500/12AO	12	88mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9508/2AO	2	13.2mm
CTB9508/3AO	3	20.9mm
CTB9508/4AO	4	28.5mm
CTB9508/5AO	5	36.1mm
CTB9508/6AO	6	43.7mm
CTB9508/7AO	7	51.3mm
CTB9508/8AO	8	59mm
CTB9508/9AO	9	66.6mm
CTB9508/10AO	10	74.2mm
CTB9508/11AO	11	81.8mm
CTB9508/12AO	12	89.4mm

CTB9500/A0



PCB mounting male horizontal (open ended)

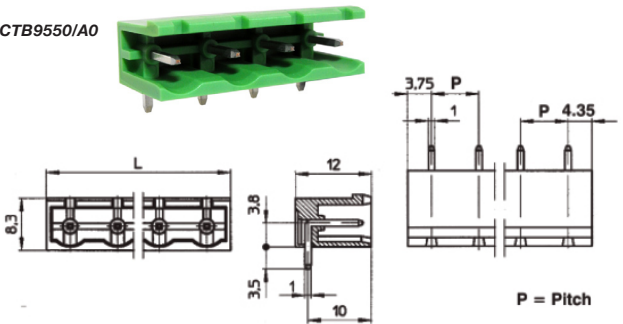
7.5mm

TYPE NO.	POLES	LENGTH
CTB9550/2AO	2	13mm
CTB9550/3AO	3	20.5mm
CTB9550/4AO	4	28mm
CTB9550/5AO	5	35.5mm
CTB9550/6AO	6	43mm
CTB9550/7AO	7	50.5mm
CTB9550/8AO	8	58mm
CTB9550/9AO	9	65.5mm
CTB9550/10AO	10	73mm
CTB9550/11AO	11	80.5mm
CTB9550/12AO	12	88mm

7.62mm

TYPE NO.	POLES	LENGTH
CTB9558/2AO	2	13.2mm
CTB9558/3AO	3	20.9mm
CTB9558/4AO	4	28.5mm
CTB9558/5AO	5	36.1mm
CTB9558/6AO	6	43.7mm
CTB9558/7AO	7	51.3mm
CTB9558/8AO	8	59mm
CTB9558/9AO	9	66.6mm
CTB9558/10AO	10	74.2mm
CTB9558/11AO	11	81.8mm
CTB9558/12AO	12	89.4mm

CTB9550/A0



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PCB TERMINAL BLOCKS

10.16mm Pitch Pluggable Rising Clamp Terminal Blocks

- 2-12 pole solid block
- Pluggable male-female connectors
- Open & closed headers
- Horizontal & vertical female plug styles
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA

Female connector

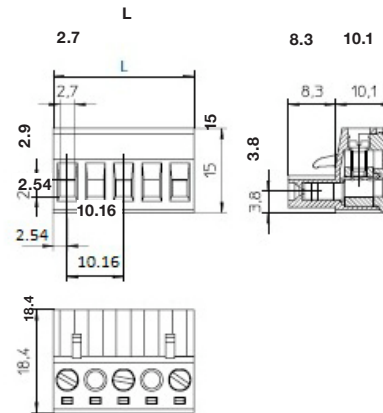
- Professional rising clamp terminals
- 0.2-2.5mm² (30-12AWG) solid & stranded cable
- Anti solder wicking
- Captive screws
- Guided pin alignment
-  approved

SPECIFICATION

Rating	20A/630V UL=12A/300V, VDE&IMQ=20A/630V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.4mm

TYPE NO.	POLES	LENGTH
CTB92HP/2	2	15.24mm
CTB92HP/3	3	25.40mm
CTB92HP/4	4	35.56mm
CTB92HP/5	5	45.72mm
CTB92HP/6	6	55.88mm
CTB92HP/7	7	66.04mm
CTB92HP/8	8	76.20mm
CTB92HP/9	9	86.36mm
CTB92HP/10	10	96.52mm
CTB92HP/11	11	106.68mm
CTB92HP/12	12	116.84mm

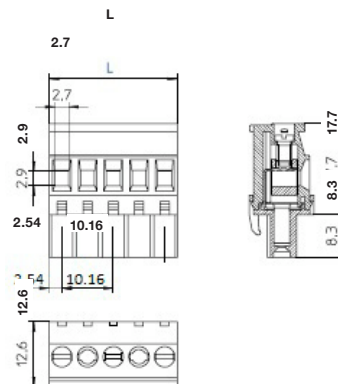
CTB92HP



Female connector vertical (standard)

TYPE NO.	POLES	LENGTH
CTB92VP/2S	2	15.24mm
CTB92VP/3S	3	25.40mm
CTB92VP/4S	4	35.56mm
CTB92VP/5S	5	45.72mm
CTB92VP/6S	6	55.88mm
CTB92VP/7S	7	66.04mm
CTB92VP/8S	8	76.20mm
CTB92VP/9S	9	86.36mm
CTB92VP/10S	10	96.52mm
CTB92VP/11S	11	106.68mm
CTB92VP/12S	12	116.84mm

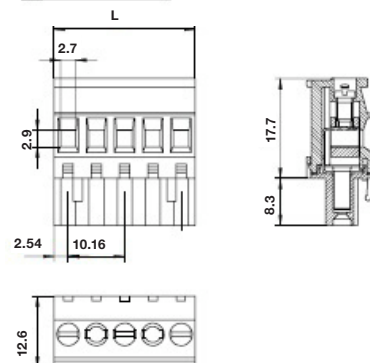
CTB92VP/S



Female connector vertical (reversed)

TYPE NO.	POLES	LENGTH
CTB92VP/2R	2	15.24mm
CTB92VP/3R	3	25.40mm
CTB92VP/4R	4	35.56mm
CTB92VP/5R	5	45.72mm
CTB92VP/6R	6	55.88mm
CTB92VP/7R	7	66.04mm
CTB92VP/8R	8	76.20mm
CTB92VP/9R	9	86.36mm
CTB92VP/10R	10	96.52mm
CTB92VP/11R	11	106.68mm
CTB92VP/12R	12	116.84mm

CTB92VP/R

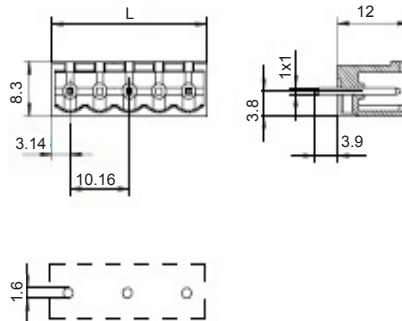


PCB TERMINAL BLOCKS

PCB mounting male vertical (closed end)

TYPE NO.	POLES	LENGTH
CTB93VP/2	2	16.44mm
CTB93VP/3	3	26.6mm
CTB93VP/4	4	36.76mm
CTB93VP/5	5	46.92mm
CTB93VP/6	6	57.08mm
CTB93VP/7	7	67.24mm
CTB93VP/8	8	77.4mm
CTB93VP/9	9	87.56mm
CTB93VP/10	10	97.72mm
CTB93VP/11	11	107.88mm
CTB93VP/12	12	118.04mm

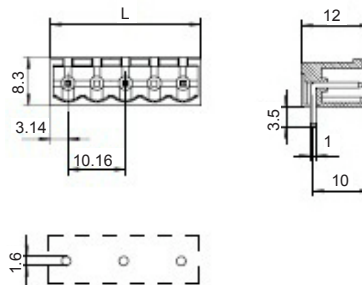
CTB93VP



PCB mounting male horizontal (closed end)

TYPE NO.	POLES	LENGTH
CTB93HP/2	2	16.44mm
CTB93HP/3	3	26.6mm
CTB93HP/4	4	36.76mm
CTB93HP/5	5	46.92mm
CTB93HP/6	6	57.08mm
CTB93HP/7	7	67.24mm
CTB93HP/8	8	77.4mm
CTB93HP/9	9	87.56mm
CTB93HP/10	10	97.72mm
CTB93HP/11	11	107.88mm
CTB93HP/12	12	118.04mm

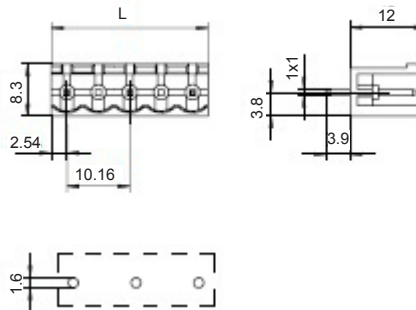
CTB93HP



PCB mounting male vertical (open ended)

TYPE NO.	POLES	LENGTH
CTB93VP/2AO	2	15.24mm
CTB93VP/3AO	3	25.40mm
CTB93VP/4AO	4	35.56mm
CTB93VP/5AO	5	45.72mm
CTB93VP/6AO	6	55.88mm
CTB93VP/7AO	7	66.04mm
CTB93VP/8AO	8	76.20mm
CTB93VP/9AO	9	86.36mm
CTB93VP/10AO	10	96.52mm
CTB93VP/11AO	11	106.68mm
CTB93VP/12AO	12	116.84mm

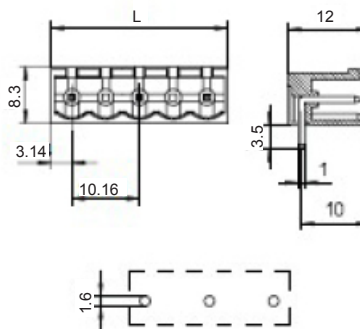
CTB93VP/AO



PCB mounting male horizontal (open ended)

TYPE NO.	POLES	LENGTH
CTB93HP/2AO	2	15.24mm
CTB93HP/3AO	3	25.40mm
CTB93HP/4AO	4	35.56mm
CTB93HP/5AO	5	45.72mm
CTB93HP/6AO	6	55.88mm
CTB93HP/7AO	7	66.04mm
CTB93HP/8AO	8	76.20mm
CTB93HP/9AO	9	86.36mm
CTB93HP/10AO	10	96.52mm
CTB93HP/11AO	11	106.68mm
CTB93HP/12AO	12	116.84mm

CTB93HP/AO



PCB
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PCB TERMINAL BLOCKS

5mm Pitch Pluggable Rising Clamp Terminal with Screw Flanges

PCB
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TRANS-
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- 2-20 pole solid block
- Pluggable male-female connectors
- Screw Flanges
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2 to 4mm² (30 to 12 AWG)
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

SPECIFICATION

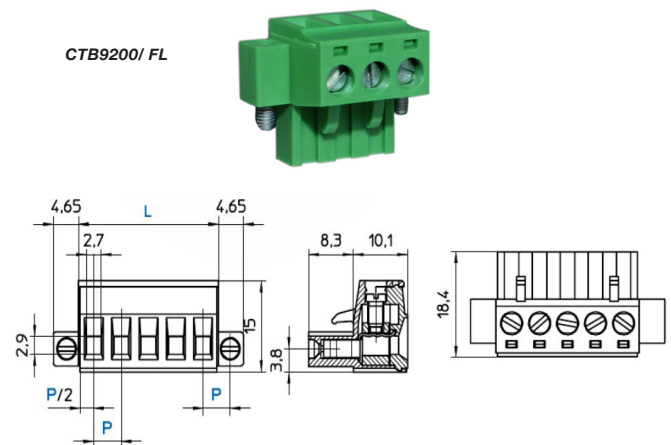
Rating	20A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	2kV
Impulse withstand voltage	4kV
Working temperature	-40°C to 110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SNM3 steel zinc
Screw/torque	plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

Female connector

TYPE NO.	POLES	LENGTH
CTB9200/2FL	2	20mm
CTB9200/3FL	3	25mm
CTB9200/4FL	4	30mm
CTB9200/5FL	5	35mm
CTB9200/6FL	6	40mm
CTB9200/7FL	7	45mm
CTB9200/8FL	8	50mm
CTB9200/9FL	9	55mm
CTB9200/10FL	10	60mm
CTB9200/11FL	11	65mm
CTB9200/12FL	12	70mm
CTB9200/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9200/14FL	14	80mm
CTB9200/15FL	15	85mm
CTB9200/16FL	16	90mm
CTB9200/17FL	17	95mm
CTB9200/18FL	18	100mm
CTB9200/19FL	19	105mm
CTB9200/20FL	20	110mm

CTB9200/ FL

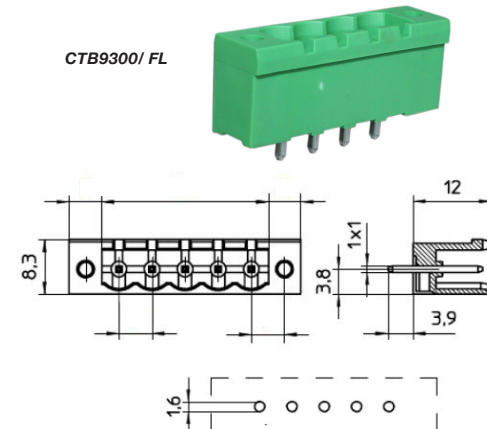


PCB mounting male vertical

TYPE NO.	POLES	LENGTH
CTB9300/2FL	2	20mm
CTB9300/3FL	3	25mm
CTB9300/4FL	4	30mm
CTB9300/5FL	5	35mm
CTB9300/6FL	6	40mm
CTB9300/7FL	7	45mm
CTB9300/8FL	8	50mm
CTB9300/9FL	9	55mm
CTB9300/10FL	10	60mm
CTB9300/11FL	11	65mm
CTB9300/12FL	12	70mm
CTB9300/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9300/14FL	14	80mm
CTB9300/15FL	15	85mm
CTB9300/16FL	16	90mm
CTB9300/17FL	17	95mm
CTB9300/18FL	18	100mm
CTB9300/19FL	19	105mm
CTB9300/20FL	20	110mm

CTB9300/ FL

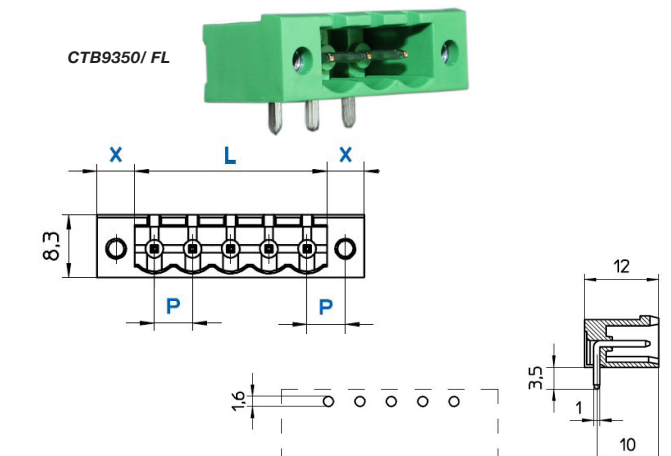


PCB mounting male horizontal

TYPE NO.	POLES	LENGTH
CTB9350/2FL	2	20mm
CTB9350/3FL	3	25mm
CTB9350/4FL	4	30mm
CTB9350/5FL	5	35mm
CTB9350/6FL	6	40mm
CTB9350/7FL	7	45mm
CTB9350/8FL	8	50mm
CTB9350/9FL	9	55mm
CTB9350/10FL	10	60mm
CTB9350/11FL	11	65mm
CTB9350/12FL	12	70mm
CTB9350/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9350/14FL	14	80mm
CTB9350/15FL	15	85mm
CTB9350/16FL	16	90mm
CTB9350/17FL	17	95mm
CTB9350/18FL	18	100mm
CTB9350/19FL	19	105mm
CTB9350/20FL	20	110mm

CTB9350/ FL



PCB TERMINAL BLOCKS

5.08mm Pitch Pluggable Rising Clamp Terminal with Screw Flanges

- 2-20 pole solid block
- Pluggable male-female connectors
- Screw Flanges
- Horizontal female plug style
- Polarised mouldings
- Moulded in green UL94-V0 flame retardant PA
- Professional rising clamp terminals
- 0.2 to 4mm² (30 to 12 AWG)
- Anti solder wicking
- Captive screws
- Guided pin alignment
-    approved

SPECIFICATION

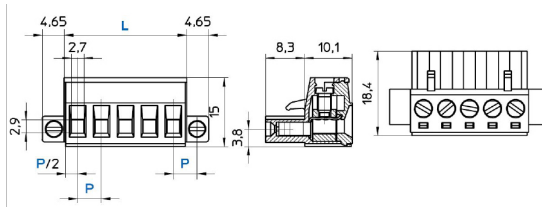
Rating	20A/320V UL=12A/300V, VDE&IMQ=20A/320V
Dielectric strength	2kV
Impulse withstand voltage	4kV
Working temperature	-40°C to 110°C
Moulding	UL94-V0 flame retardant PA
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Copper alloy, NI & SN
Screw/torque	M3 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.5mm

Female connector

TYPE NO.	POLES	LENGTH
CTB9208/2FL	2	20mm
CTB9208/3FL	3	25mm
CTB9208/4FL	4	30mm
CTB9208/5FL	5	35mm
CTB9208/6FL	6	40mm
CTB9208/7FL	7	45mm
CTB9208/8FL	8	50mm
CTB9208/9FL	9	55mm
CTB9208/10FL	10	60mm
CTB9208/11FL	11	65mm
CTB9208/12FL	12	70mm
CTB9208/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9208/14FL	14	80mm
CTB9208/15FL	15	85mm
CTB9208/16FL	16	90mm
CTB9208/17FL	17	95mm
CTB9208/18FL	18	100mm
CTB9208/19FL	19	105mm
CTB9208/20FL	20	110mm
CTB9208/21FL	21	115mm
CTB9208/22FL	22	120mm

CTB9208/ FL

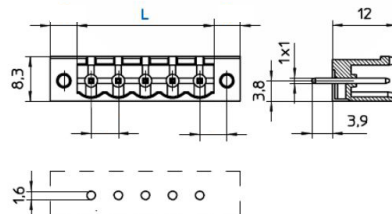


PCB mounting male vertical

TYPE NO.	POLES	LENGTH
CTB9308/2FL	2	20mm
CTB9308/3FL	3	25mm
CTB9308/4FL	4	30mm
CTB9308/5FL	5	35mm
CTB9308/6FL	6	40mm
CTB9308/7FL	7	45mm
CTB9308/8FL	8	50mm
CTB9308/9FL	9	55mm
CTB9308/10FL	10	60mm
CTB9308/11FL	11	65mm
CTB9308/12FL	12	70mm
CTB9308/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9308/14FL	14	80mm
CTB9308/15FL	15	85mm
CTB9308/16FL	16	90mm
CTB9308/17FL	17	95mm
CTB9308/18FL	18	100mm
CTB9308/19FL	19	105mm
CTB9308/20FL	20	110mm
CTB9308/21FL	21	115mm
CTB9308/22FL	22	120mm

CTB9308/ FL

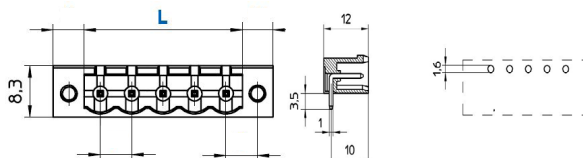


PCB mounting male horizontal

TYPE NO.	POLES	LENGTH
CTB9358/2FL	2	20mm
CTB9358/3FL	3	25mm
CTB9358/4FL	4	30mm
CTB9358/5FL	5	35mm
CTB9358/6FL	6	40mm
CTB9358/7FL	7	45mm
CTB9358/8FL	8	50mm
CTB9358/9FL	9	55mm
CTB9358/10FL	10	60mm
CTB9358/11FL	11	65mm
CTB9358/12FL	12	70mm
CTB9358/13FL	13	75mm

TYPE NO.	POLES	LENGTH
CTB9358/14FL	14	80mm
CTB9358/15FL	15	85mm
CTB9358/16FL	16	90mm
CTB9358/17FL	17	95mm
CTB9358/18FL	18	100mm
CTB9358/19FL	19	105mm
CTB9358/20FL	20	110mm
CTB9358/21FL	21	115mm
CTB9358/22FL	22	120mm

CTB9358/ FL



PCB
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PCB TERMINAL BLOCKS

5mm Pitch Pluggable for Vertical or 90° mounting Screw Terminal

PCB
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- 2-12 pole interlocking
- Pluggable via header pins
- Test probe facility
- Dual horizontal or vertical mounting
- Moulded in black UL94-V0 flame retardant PBT
- Wire protector terminals
- 0.8-1.5mm² (22-14AWG) solid & stranded cable
- Captive screws
-  us & IEC approved

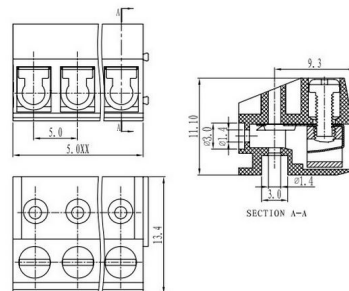
CTBA1301



TYPE NO.	POLES	LENGTH
CTBA1301/2A	2	10mm
CTBA1301/3A	3	15mm
CTBA1301/4A	4	20mm
CTBA1301/5A	5	25mm
CTBA1301/6A	6	30mm
CTBA1301/7A	7	35mm
CTBA1301/8A	8	40mm
CTBA1301/9A	9	45mm
CTBA1301/10A	10	50mm
CTBA1301/11A	11	55mm
CTBA1301/12A	12	60mm

SPECIFICATION

Rating	16A/250V UL=16A/250V IEC= 18A/250V
Dielectric strength	2.5kV
Working temperature	-30°C to 120°C
Moulding	UL94-V0 flame retardant PBT
Wire protector	Phosphor bronze, nickel plated
Terminal	Brass nickel plated
Screw/torque	M2.5 steel nickel plated, 0.4Nm



5mm Pitch 24 Pin Strip Header

- Supplied in 24 way
- Easily cut to required length
- Can be supplied pre-cut
- Flame retardant PBT
- Anti solder wicking
- Guided pin alignment
-  us & IEC approved

CTBA1301 Pin Strip

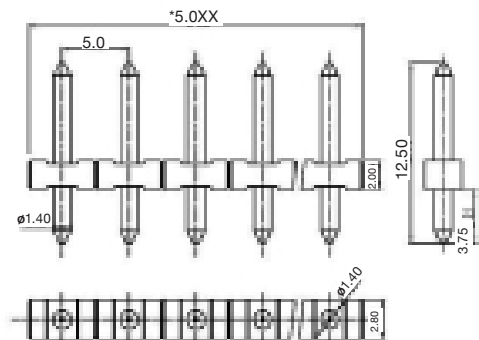
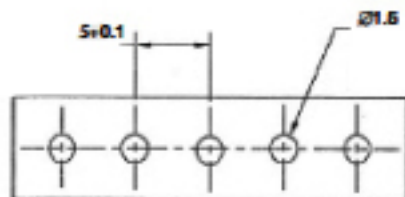


TYPE NO.	POLES
CTBA1301P	1 Pin
CTBA1301/PS24	24 way Pin strip

SPECIFICATION

Rating	10A/250V
Insulation withstands volt	2000V min
Insulation resistance	500MΩ/DC500V
Working temperature	-30°C to +120°C
Soldering condition	250°C/ 5 seconds
Moulding	UL94-V0 flame retardant PBT
Pins	Brass tin plated
Recommended PCB hole size	ø1.4mm

Recommended PCB Layout



PCB TERMINAL BLOCKS

10mm Pitch Pluggable for Vertical or 90° mounting Screw Terminal

- 2-12 pole interlocking
- Pluggable via header pins
- Test probe facility
- Dual horizontal or vertical mounting
- Moulded in black UL94-V0 flame retardant glass filled Polyester
- Wire protector terminals
- 1.5mm² cable entry
- Captive screws
-  approved

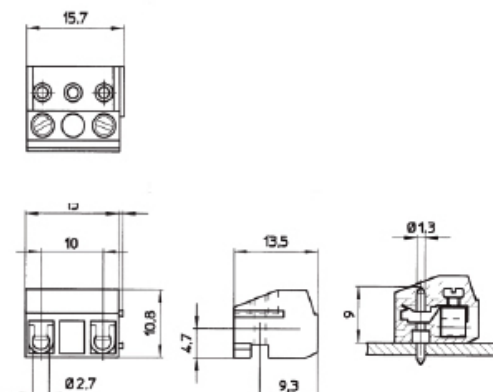
CTB2301



TYPE NO.	POLES	LENGTH
CTB2301/1A	1	10mm
CTB2301/1A/15	1	15mm
CTB2301/2A	2	15mm
CTB2301/3A	3	25mm
CTB2301/4A	4	35mm
CTB2301/5A	5	45mm
CTB2301/6A	6	55mm
CTB2301/7A	7	65mm
CTB2301/8A	8	75mm
CTB2301/9A	9	85mm
CTB2301/10A	10	95mm
CTB2301/11A	11	105mm
CTB2301/12A	12	115mm

SPECIFICATION

Rating	10A/630V
Dielectric strength	≥2kV
Working temperature	110°C
Moulding	UL94-V0 flame retardant glass filled polyester
Terminal	Tinned, nickel plated brass
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm



10mm Pitch 12 Pin Strip Header

- Supplied as 12 way
- Easily cut to required length
- Can be supplied pre-cut
- Flame retardant Polyester material
- Anti-solder wicking
- Guided pin alignment
- Single pin available (CTB2301P)

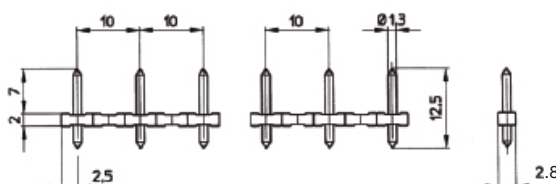
CTB2301 Pin Strip



TYPE NO.	POLES
CTB2301P	1
CTB2301/PS12	12

SPECIFICATION

Rating	10A/750V
Moulding	UL94-V0 flame retardant Lexan
Terminal	Tinned, nickel plated brass
Recommended PCB hole size	ø1.5mm



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PCB TERMINAL BLOCKS

5mm Pitch Pluggable for Vertical or 90° mounting Rising Clamp Terminal

- Unique 36 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut to specified number of poles
- Dual horizontal or vertical mounting
- Moulded in grey UL94-V0 flame retardant PC
- Professional rising clamp terminals
- 0.2-2.5mm² (24-12AWG) solid & stranded cable
- Optional polarising clips
- Anti solder wicking
- Guided pin alignment
- Captive screws
-  approved

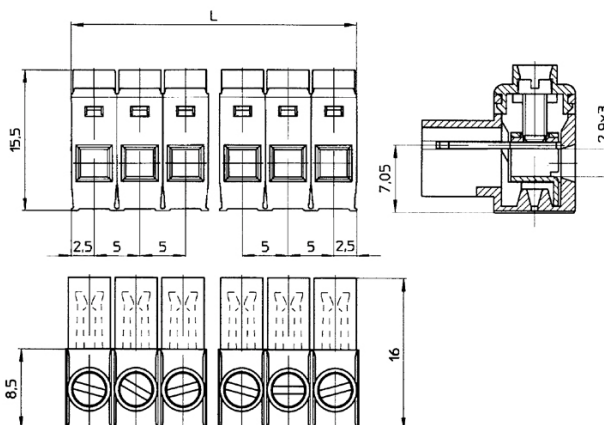
SPECIFICATION

Rating	16A/250V UL=14A/300V, VDE&IMQ=16A/250V
Dielectric strength	≥2.5kV
Impulse withstand voltage	4kV
Working temperature	130°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Tinned, nickel plated brass
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.4Nm
Recommended PCB hole size	ø1.3mm

Female connector

TYPE NO.	POLES	LENGTH
CTB7300/2F	2	10mm
CTB7300/3F	3	15mm
CTB7300/4F	4	20mm
CTB7300/5F	5	25mm
CTB7300/6F	6	30mm
CTB7300/7F	7	35mm
CTB7300/8F	8	40mm
CTB7300/9F	9	45mm
CTB7300/10F	10	50mm
CTB7300/11F	11	55mm
CTB7300/12F	12	60mm
CTB7300/36F	36	180mm

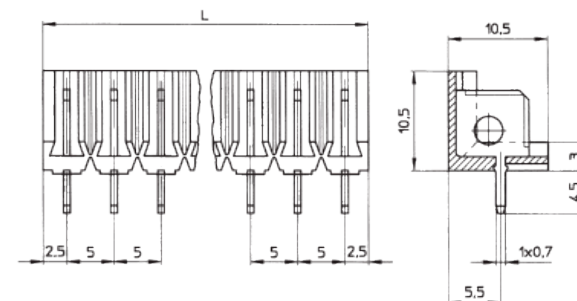
CTB7300/F



PCB mounting male

TYPE NO.	POLES	LENGTH
CTB7300/2M	2	10mm
CTB7300/3M	3	15mm
CTB7300/4M	4	20mm
CTB7300/5M	5	25mm
CTB7300/6M	6	30mm
CTB7300/7M	7	35mm
CTB7300/8M	8	40mm
CTB7300/9M	9	45mm
CTB7300/10M	10	50mm
CTB7300/11M	11	55mm
CTB7300/12M	12	60mm
CTB7300/36M	36	180mm

CTB7300/M

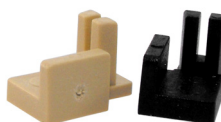


Polarising Clip

TYPE NO.	
CTB7300C	1 pair

Fitted to each end of the male connector ensures correct vertical or horizontal orientation of the female part

CTB7300/C



PCB TERMINAL BLOCKS

10mm Pitch Pluggable for Vertical or 90° Mounting Rising Clamp Terminal

- Unique 18 pole strip
- Easily cut to required number of poles
- Can be supplied pre-cut to specified number of poles
- Dual horizontal or vertical mounting
- Moulded in grey UL94-V0 flame retardant PC

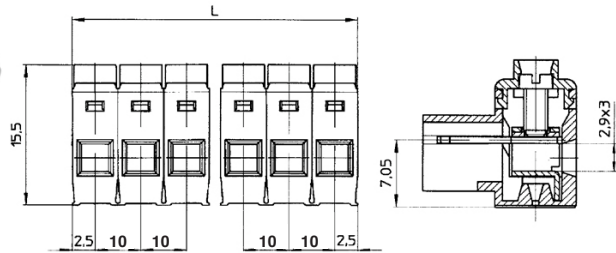
- Professional rising clamp terminals
- 0.2-2.5mm² (24-12AWG) solid & stranded cable
- Optional polarising clips
- Anti solder wicking
- Guided pin alignment
- Captive screws
-   approved

SPECIFICATION	
Rating	16A/500V
	UL=14A/300V, VDE&IMQ=16A/500V
Dielectric strength	≥3kV
Impulse withstand voltage	6kV
Working temperature	85°C
Moulding	UL94-V0 flame retardant PC
Pin/terminal	Copper alloy, NI & SN
Rising clamp	Zinc plated steel
Screw/torque	M2.5 steel zinc plated, 0.5Nm
Recommended PCB hole size	ø1.3mm

Female Connector

TYPE NO.	POLES	LENGTH
CTB8300/2F	2	15mm
CTB8300/3F	3	25mm
CTB8300/4F	4	35mm
CTB8300/5F	5	45mm
CTB8300/6F	6	55mm
CTB8300/7F	7	65mm
CTB8300/8F	8	75mm
CTB8300/9F	9	85mm
CTB8300/10F	10	95mm
CTB8300/11F	11	105mm
CTB8300/12F	12	115mm
CTB8300/18F	18	175mm

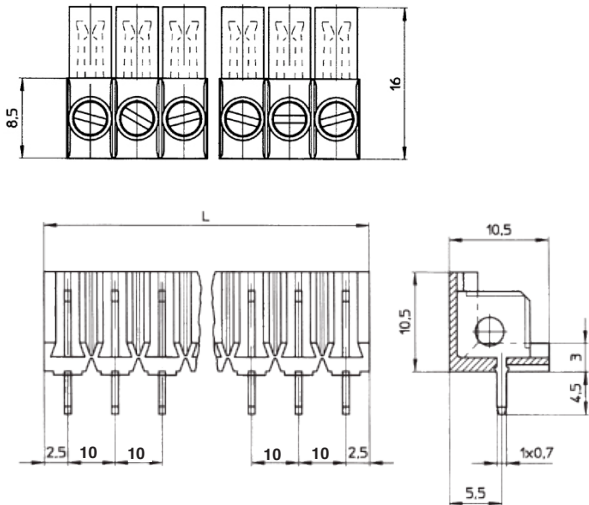
CTB8300/F



PCB Mounting Male

TYPE NO.	POLES	LENGTH
CTB8300/2M	2	15mm
CTB8300/3M	3	25mm
CTB8300/4M	4	35mm
CTB8300/5M	5	45mm
CTB8300/6M	6	55mm
CTB8300/7M	7	65mm
CTB8300/8M	8	75mm
CTB8300/9M	9	85mm
CTB8300/10M	10	95mm
CTB8300/11M	11	105mm
CTB8300/12M	12	115mm
CTB8300/18M	18	175mm

CTB8300/M

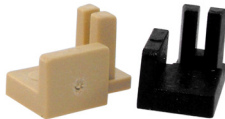


Polarising Clip

TYPE NO.	
CTB7300C	1 pair

Fitted to each end of the male connector ensures correct vertical or horizontal orientation of the female part

CTB7300/C



PCB TERMINAL BLOCKS

Screwless Terminal Blocks

- 1-36 poles 5, 5.08mm pitch
- 1-24 poles 7.5, 7.62mm pitch
- 1-18 poles 10, 10.16mm pitch
- Easily breakable to desired number of poles, end walls available on request
- Moulded in grey UL94-V0 flame retardant PA
- 0.5-1.5mm² (30-16AWG) solid & stranded cable
- Guided pin alignment
- Anti solder wicking
- Spacers in 2.5, 2.54, 5 & 5.08mm available
- Full customisation, produced from 1 pole units which can be pre-assembled to individual requirements
- Available without actuators (screwdriver operation) add suffix /W
-  approved

SPECIFICATION	5mm, 5.08mm	7.5mm, 7.62mm	10mm, 10.16mm
Rating	10A/250V	10A/500V	10A/630V
UL	10A/300V	10A/300V	10A/300V
VDE/IMQ	10A/250V	10A/750V	10A/750V
Dielectric strength	≥2kV	≥2.5kV	≥3kV
Impulse withstand voltage	4kV	6kV	6kV
Working temperature	110°C		
Moulding	UL94-V0 flame retardant PA		
Pin/terminal	Copper alloy, Ni & Sn		
Rising Clamp	Inox steel		
Recommended PCB hole	ø1.1mm		

5mm, 5.08mm Pitch

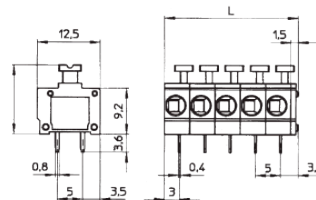
TYPE NO.	POLES	LENGTH
CSTBV1/1	1	6.5mm
CSTBV1/2	2	11.5mm
CSTBV1/3	3	16.5mm
CSTBV1/4	4	21.5mm
CSTBV1/5	5	26.5mm
CSTBV1/6	6	31.5mm
CSTBV1/7	7	36.5mm
CSTBV1/8	8	41.5mm
CSTBV1/9	9	46.5mm
CSTBV1/10	10	51.5mm
CSTBV1/11	11	56.5mm
CSTBV1/12	12	61.5mm
CSTBV1/36	36	181.5mm

5.08mm

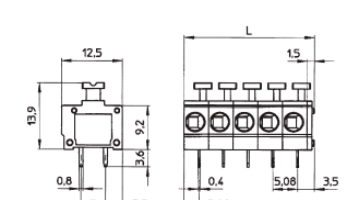
TYPE NO.	POLES	LENGTH
CSTBV2/1	1	6.6mm
CSTBV2/2	2	11.7mm
CSTBV2/3	3	16.7mm
CSTBV2/4	4	21.8mm
CSTBV2/5	5	26.9mm
CSTBV2/6	6	32mm
CSTBV2/7	7	37.1mm
CSTBV2/8	8	42.1mm
CSTBV2/9	9	47.2mm
CSTBV2/10	10	52.3mm
CSTBV2/11	11	57.4mm
CSTBV2/12	12	62.5mm
CSTBV2/36	36	184.4mm



CSTBV1



CSTBV2



7.5mm, 7.62mm Pitch

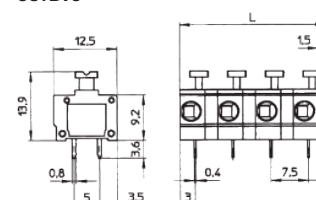
TYPE NO.	POLES	LENGTH
CSTBV3/2	2	14mm
CSTBV3/3	3	21.5mm
CSTBV3/4	4	29mm
CSTBV3/5	5	36.5mm
CSTBV3/6	6	44mm
CSTBV3/7	7	51.5mm
CSTBV3/8	8	59mm
CSTBV3/9	9	66.5mm
CSTBV3/10	10	74.5mm
CSTBV3/11	11	81.5mm
CSTBV3/12	12	89mm
CSTBV3/24	24	179mm

7.62mm

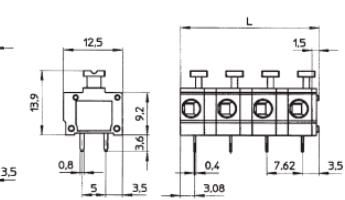
TYPE NO.	POLES	LENGTH
CSTBV4/2	2	14.2mm
CSTBV4/3	3	21.8mm
CSTBV4/4	4	29.5mm
CSTBV4/5	5	37.1mm
CSTBV4/6	6	44.7mm
CSTBV4/7	7	52.3mm
CSTBV4/8	8	59.9mm
CSTBV4/9	9	67.5mm
CSTBV4/10	10	75.2mm
CSTBV4/11	11	82.8mm
CSTBV4/12	12	90.4mm
CSTBV4/24	24	181.8mm



CSTBV3



CSTBV4



10mm, 10.16mm Pitch

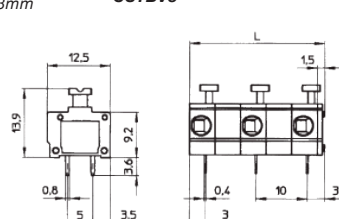
TYPE NO.	POLES	LENGTH
CSTBV5/2	2	16.5mm
CSTBV5/3	3	26.5mm
CSTBV5/4	4	36.5mm
CSTBV5/5	5	46.5mm
CSTBV5/6	6	56.5mm
CSTBV5/12	12	116.5mm
CSTBV5/18	18	176.5mm

10.16mm

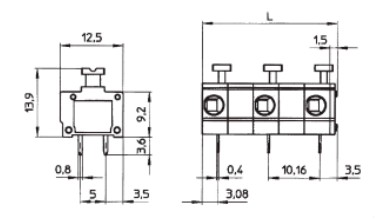
TYPE NO.	POLES	LENGTH
CSTBV6/2	2	16.7mm
CSTBV6/3	3	26.9mm
CSTBV6/4	4	37.1mm
CSTBV6/5	5	47.2mm
CSTBV6/6	6	57.4mm
CSTBV6/12	12	118.3mm
CSTBV6/18	18	179.3mm



CSTBV5



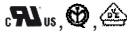
CSTBV6



For without actuators, add suffix /W

PCB TERMINAL BLOCKS

Screwless Vertical Actuator 45° Terminal Blocks

- Interlocking modules
- 45 degree cable entry
- Kinked pins for soldering retention
- 0.5-1.5mm² (30-16AWG) solid & stranded cable
- Guided pin alignment
- Offset pinout allows greater voltage clearance
- End wall CSTBV/EW available to order
-  approved

CSTB45VD



SPECIFICATION	3.5mm, 3.81mm	
Rating	4A/320V	4A/500V
	UL=4A/300V	UL=4A/300V
	VDE&IMQ=4A/450V	VDE&IMQ=4A/750V
Dielectric strength	≥ 2.5kV	
Impulse withstand voltage	4kV	6kV
Working temperature	110°C	
Moulding	Grey UL 94 V0 flame retardant PA	
Pin/contact	Copper alloy, NI & SN	
Recommended PCB hole size	ø1mm	

3.5mm

TYPE NO.	POLES	LENGTH
CSTB45VD/2	2	8.5mm
CSTB45VD/3	3	12mm
CSTB45VD/4	4	15.5mm
CSTB45VD/5	5	19mm
CSTB45VD/6	6	22.5mm
CSTB45VD/7	7	26mm
CSTB45VD/8	8	29.5mm
CSTB45VD/9	9	33mm
CSTB45VD/10	10	36.5mm
CSTB45VD/11	11	40mm
CSTB45VD/12	12	43.5mm

3.81mm

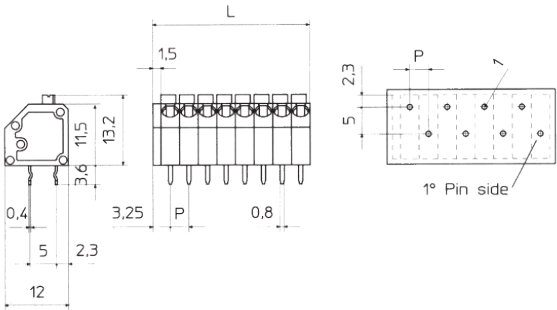
TYPE NO.	POLES	LENGTH
CSTB45VE/2	2	9.12mm
CSTB45VE/3	3	12.93mm
CSTB45VE/4	4	16.74mm
CSTB45VE/5	5	20.55mm
CSTB45VE/6	6	24.36mm
CSTB45VE/7	7	28.17mm
CSTB45VE/8	8	31.98mm
CSTB45VE/9	9	35.79mm
CSTB45VE/10	10	39.60mm
CSTB45VE/11	11	43.41mm
CSTB45VE/12	12	47.22mm

7mm

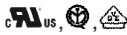
TYPE NO.	POLES	LENGTH
CSTB45VX/2	2	12mm
CSTB45VX/3	3	19mm
CSTB45VX/4	4	26mm
CSTB45VX/5	5	33mm
CSTB45VX/6	6	40mm
CSTB45VX/7	7	47mm
CSTB45VX/8	8	54mm
CSTB45VX/9	9	61mm
CSTB45VX/10	10	68mm
CSTB45VX/11	11	75mm
CSTB45VX/12	12	82mm

7.62mm

TYPE NO.	POLES	LENGTH
CSTB45VL/2	2	12.93mm
CSTB45VL/3	3	20.55mm
CSTB45VL/4	4	28.17mm
CSTB45VL/5	5	35.79mm
CSTB45VL/6	6	43.41mm
CSTB45VL/7	7	51.03mm
CSTB45VL/8	8	58.65mm
CSTB45VL/9	9	66.27mm
CSTB45VL/10	10	73.89mm
CSTB45VL/11	11	81.51mm
CSTB45VL/12	12	89.13mm



5.08mm Pitch Screwless 45° Terminal Blocks

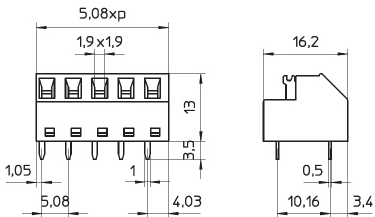
- 2-7 pole solid block
- Moulded in grey UL94-V0 flame retardant PA
- 0.5-1.5mm² (22-16AWG) solid & stranded cable
-  approved

CSTB



TYPE NO.	POLES	LENGTH
CSTB/2	2	10.16mm
CSTB/3	3	15.24mm
CSTB/4	4	20.32mm
CSTB/5	5	25.4mm
CSTB/6	6	30.48mm
CSTB/7	7	35.56mm

SPECIFICATION	
Rating	10A/250V
	UL=10A/300V, VDE&IMQ=10A/250V
Dielectric strength	≥4kV
Impulse withstand voltage	6kV
Working temperature	110°C
Moulding	UL 94 V0 flame retardant PA
Pin/terminal	Tinned, phosphor bronze
Spring	Zinc plated steel
Recommended PCB hole size	ø1.1mm



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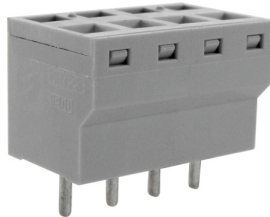


PCB TERMINAL BLOCKS

5.08mm & 10.16mm Pitch Screwless Top Entry Terminal Blocks

- 2-24 pole solid block
5.08mm pitch
- 1-10 pole solid block
10.16mm pitch
- Top entry for cable
and release point
- Moulded in grey UL94-V0
Flame retardant PA
- 0.5-1.5mm² (30-16AWG)
solid & stranded cable
-  approved

CSTBV23



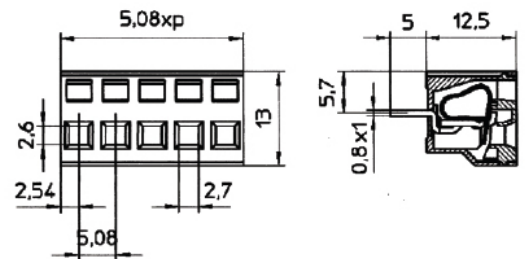
SPECIFICATION	5.08mm
Rating	16A/320V UL=10A/300V VDE&IMQ=16A/450V
Dielectric strength	≥ 2.5kV
Impulse withstand voltage	4kV
Working temperature	110°C
Moulding	Grey UL 94 V0 flame retardant PA
Pin/contact	Copper alloy, NI & SN
Spring	INOX Steel
Recommended PCB hole size	ø1.1mm

5.08mm

TYPE NO.	POLES	LENGTH
CSTBV23/2	2	10.2mm
CSTBV23/3	3	15.2mm
CSTBV23/4	4	20.3mm
CSTBV23/5	5	25.4mm
CSTBV23/6	6	30.5mm
CSTBV23/7	7	35.6mm
CSTBV23/8	8	40.6mm
CSTBV23/9	9	45.7mm
CSTBV23/10	10	50.8mm
CSTBV23/11	11	55.9mm
CSTBV23/12	12	61mm
CSTBV23/13	13	66mm
CSTBV23/14	14	71.1mm
CSTBV23/15	15	76.2mm
CSTBV23/16	16	81.3mm
CSTBV23/17	17	86.4mm
CSTBV23/18	18	91.4mm
CSTBV23/19	19	96.5mm
CSTBV23/20	20	101.6mm
CSTBV23/21	21	106.7mm
CSTBV23/22	22	111.8mm
CSTBV23/23	23	121.9mm
CSTBV23/24	24	131.9mm

10.16mm

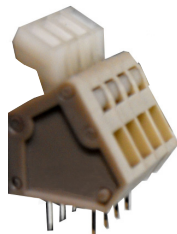
TYPE NO.	POLES	LENGTH
CSTBV23P/1	1	10.2mm
CSTBV23P/2	2	20.3mm
CSTBV23P/3	3	30.5mm
CSTBV23P/4	4	40.6mm
CSTBV23P/5	5	50.8mm
CSTBV23P/6	6	61mm
CSTBV23P/7	7	71.1mm
CSTBV23P/8	8	81.3mm
CSTBV23P/9	9	91.4mm
CSTBV23P/10	10	101.6mm



16A/630V
UL=10A/300V
VDE&IMQ=16A/750V

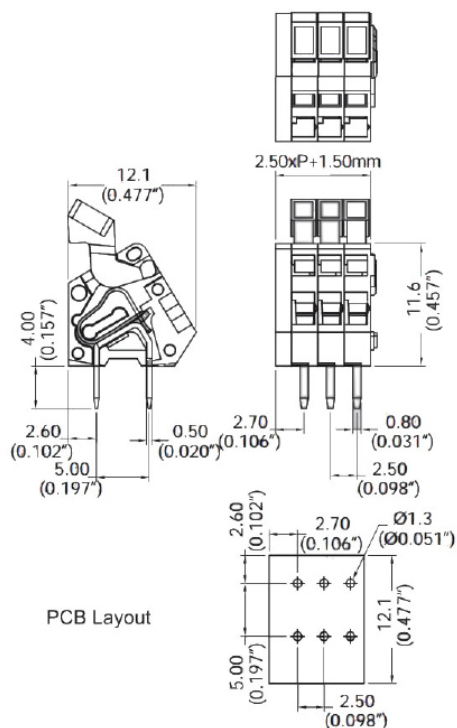
2.5mm Pitch Screwless Terminal Blocks

- GRAVIS**



TYPE NO.		LENGTH
CSTBA45VC/2	2	6.5mm
CSTBA45VC/3	3	9.0mm
CSTBA45VC/4	4	11.5mm
CSTBA45VC/5	5	14.0mm
CSTBA45VC/6	6	16.5mm
CSTBA45VC/7	7	19.0mm
CSTBA45VC/8	8	21.5mm
CSTBA45VC/9	9	24.0mm
CSTBA45VC/10	10	26.0mm
CSTBA45VC/11	11	29.0mm
CSTBA45VC/12	12	31.5mm
CSTBA45VC/13	13	34.0mm
CSTBA45VC/14	14	36.5mm
CSTBA45VC/15	15	39.0mm
CSTBA45VC/16	16	41.5mm
CSTBA45VC/17	17	44.0mm
CSTBA45VC/18	18	46.5mm
CSTBA45VC/19	19	49.0mm
CSTBA45VC/20	20	51.5mm
CSTBA45VC/21	21	54.0mm
CSTBA45VC/22	22	56.5mm
CSTBA45VC/23	23	59.0mm
CSTBA45VC/24	24	61.5mm

Rating	4A/130V
	UL=4A/150V, VDE=6A/130V
Operating temperature	-40°C to 105°C
Spring	Stainless strip steel
Pin Terminal	Brass/Tin Plated
PCB Hole Diameter	Ø1.3mm



INTERCONNECTION

FUSES &
FUSE-
HOLDERS

HIGH TEMPERATURE RESISTANT CONNECTION BLOCKS
12-WAY NYLON TERMINAL STRIPS

Terminal strip
Pluggable
Strain relief

CHTB p70
CTSN p71
CTSN/MF p73
CSR p73
CTBSN100 p74

LEDS &
INDICATORS

PCB MOUNTED TERMINAL STRIP

EASY BREAK TERMINAL STRIPS

CTSOS p75

LINE TAPS

CISB p76

MINIATURE
SWITCHES

SCREW TO SCREWLESS TERMINAL STRIPS

Terminal strip
Strain relief

CTSP p77
CSR p78

PUSH-IN FAST CONNECTORS

Connectors
Strain relief

CPW p79
CSR6 p80

LIMIT &
SAFETY
SWITCHES

BARRIER STRIPS

6.35mm

Tri-Barrier PCB Mount

CBS40 p81

8.25mm

Tri-Barrier PCB Mount

CBS42 p81

9.5mm

Tri-Barrier PCB Mount

CBS44 p82

Dual-Barrier PCB Mount

CBS34 p82

Dual-Barrier Chassis Mount

CBS64 p83

11mm

Dual-Barrier Chassis Mount

CBS66 p83

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

PCB MOUNTING CRIMP CONNECTORS

2.5mm

PCB Mounting Crimp Connectors

In-line PCB mounting male
Staggered PCB mounting male
Female connectors
Crimps 6A
Crimps 7.5A

CTM600 p85
CTM601 p85
CTH600 p85
CTC600 p85
CTC750 p85

RELAY
BASES

ENCLOSURES

5.08mm

PCB Mounting Crimp Connectors

In-line PCB mounting male
Staggered PCB mounting male
Female Connectors
Crimps 4A

CTM1300 p86
CTM1350 p86
CTH1300 p86
CTC1300 p86

BATTERIES

IC SOCKETS & ADAPTERS

IC Sockets Dual-In-Line

CICS p87

IC Pin Strips

CSICS p87

Adapter Sockets Dual-In-Line

CICA p87

Adapter Strips

CSICA p87

TRANS-
FORMERS

PLCC SOCKETS

CPLCC p88

INTERCONNECTION

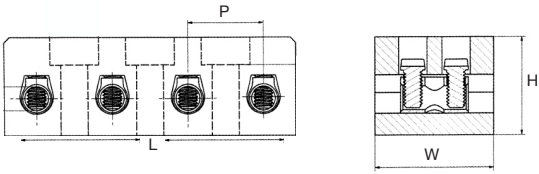
High Temperature Resistant Connection Blocks

- Porcelain body rated to 1000°C
- Inserts rated to 350°C
- 1 to 4 poles available
- 3, 3.5, 4.4 and 6mm insert diameter sizes
- CEC marked

CHTB/N



SPECIFICATION	
Voltage (max)	450V AC
Working temperature	5°C to 350°C
Insulating body	Porcelain (DIN 40685)
Insert	Nickel-plated brass
Screws	Zinc-plated steel CQ-15



TYPE NO.	POLES	MAX. CURRENT	INSERT DIAMETER	MAX. CONDUCTOR:		LENGTH (L)	WIDTH (W)	HEIGHT (H)	MOUNTING HOLE SIZE:		TERMINAL:	
				RIGID	FLEXIBLE				DIAMETER	SCREW HEAD	PITCH (P)	SCREWS
CHTB4/1N	1	32A	3mm	4mm ²	4mm ²	10mm	18mm	17mm	-	-	-	M2.6
CHTB4/2N	2	32A	3mm	4mm ²	4mm ²	21.5mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB4/3N	3	32A	3mm	4mm ²	4mm ²	33mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB4/4N	4	32A	3mm	4mm ²	4mm ²	44.5mm	18mm	17mm	4.5mm	6.9mm	11.5mm	M2.6
CHTB6/1N	1	41A	3.5mm	6mm ²	4mm ²	11mm	20mm	17.5mm	-	-	-	M3
CHTB6/2N	2	41A	3.5mm	6mm ²	4mm ²	23.5mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB6/3N	3	41A	3.5mm	6mm ²	4mm ²	36mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB6/4N	4	41A	3.5mm	6mm ²	4mm ²	48.5mm	20mm	17.5mm	4.5mm	7.5mm	12.5mm	M3
CHTB10/1N	1	25A	4.4mm	10mm ²	6mm ²	12mm	22mm	18mm	-	-	-	M3.5
CHTB10/2N	2	25A	4.4mm	10mm ²	6mm ²	26mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB10/3N	3	25A	4.4mm	10mm ²	6mm ²	40mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB10/4N	4	25A	4.4mm	10mm ²	6mm ²	54mm	22mm	18mm	5mm	8.5mm	14mm	M3.5
CHTB16/1N	1	76A	6mm	16mm ²	10mm ²	16mm	30mm	23mm	-	-	-	M4
CHTB16/2N	2	76A	6mm	16mm ²	10mm ²	34mm	30mm	23mm	5mm	9mm	17.5mm	M4
CHTB16/3N	3	76A	6mm	16mm ²	10mm ²	52mm	30mm	23mm	5mm	9mm	17.5mm	M4
CHTB16/4N	4	76A	6mm	16mm ²	10mm ²	70mm	30mm	23mm	5mm	9mm	17.5mm	M4

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

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FUSE-
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INDICATORS

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BATTERIES

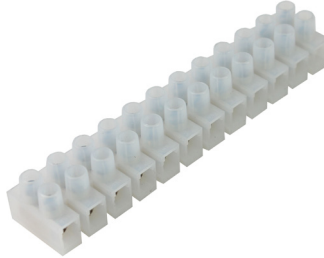
TRANS-
FORMERS

INTERCONNECTION

12 Way Nylon Terminal Strips

- Moulded from Natural PA6 (standard, CTSN400), Cream PA66 (CTSN500), Grey PA66 Glass fibre (CTSN600)
- Available with or without wire protection
- UL94-V2 Self extinguishing as standard
- V0 types pass 960°C glow-wire test
- Middle barrier option available
- Printing available on request
- Easily cut to size
- Supplied cut to length on request
- Closed inserts (middle barrier) option
- Captive terminal screws
- CE, RoHS, REACH & UL approvals

CTSN



SPECIFICATION

Voltage	CTSN431-433	450VAC
	CTSN434-438	750VAC (UL600VAC)
Working temperature	CTSN400	-30°C to +110°C
	CTSN500	-30°C to +110°C
	CTSN600	-5°C to +160°C
Moulding	CTSN400	UL94-V2 PA6
	CTSN500	UL94-V0 PA66
	CTSN600	UL94-V0 PA66 + GF
Standard insert	Nickel-plated brass	
Terminal screws	Zinc-plated steel CQ-15	
Wire protectors	Stainless steel	

Part Numbers shown are for standard PA6 material (e.g. CTSN433/12)

For CTSN500 PA66 material change first number to 5 (e.g. CTSN533/12)

For CTSN600 PA66+GF material change first number to 6 (e.g. CTSN633/12)

Standard Type

TYPE NO.	PITCH / UL RATING	WIRE PROTECTION	INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
CTSN431/12W	8mm/20A	No	3.2mm	4.0mm ² /12AWG	M3	94mm	18mm	15mm	8mm	2.8mm	32A
CTSN431/12	8mm/15A	Yes	3.2mm	2.5mm ² /14AWG	M3	94mm	18mm	15mm	8mm	2.8mm	32A
CTSN433/12W	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	21mm	16mm	9.95mm	2.8mm	41A
CTSN433/12	10mm/20A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	21mm	16mm	9.95mm	2.8mm	41A
CTSN434/12W	12mm/50A	No	4.4mm	10.0mm ² /8AWG	M3.5	140mm	23mm	18mm	12mm	2.8mm	57A
CTSN434/12	12mm/30A	Yes	4.4mm	6.0mm ² /10AWG	M3.5	140mm	23mm	18mm	12mm	2.8mm	57A
CTSN436/12W	13.5mm/65A	No	6.0mm	16.0mm ² /6AWG	M4	159mm	26mm	22.5mm	13.5mm	3.6mm	76A
CTSN436/12	13.5mm/65A	Yes	6.0mm	10.0mm ² /8AWG	M4	159mm	26mm	22.5mm	13.5mm	3.6mm	76A
CTSN438/12W	18mm/85A	No	7.5mm	3.5mm ² /2AWG	M5	180mm	31mm	27.5mm	15mm	3.4mm	101A

Raised Base

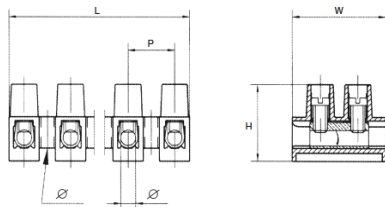
TYPE NO.	PITCH / UL RATING	WIRE PROTECTION	INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
CTSN431/12WR	8mm/20A	No	3.2mm	4.0mm ² /12AWG	M3	94mm	18mm	17mm	8mm	2.8mm	32A
CTSN431/12R	8mm/20A	Yes	3.2mm	2.5mm ² /14AWG	M3	94mm	18mm	17mm	8mm	2.8mm	32A
CTSN433/12WR	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	21mm	17.5mm	10mm	2.8mm	41A
CTSN433/12R	10mm/30A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	21mm	17.5mm	10mm	2.8mm	41A
CTSN434/12WR	12mm/50A	No	4.4mm	10.0mm ² /8AWG	M3.5	140mm	23mm	20mm	12mm	2.8mm	57A
CTSN434/12R	12mm/50A	Yes	4.4mm	6.0mm ² /10AWG	M3.5	140mm	23mm	20mm	12mm	2.8mm	57A
CTSN436/12WR	13.5mm/65A	No	6.0mm	16.0mm ² /6AWG	M4	159mm	26mm	26mm	13.5mm	3.6mm	76A
CTSN436/12R	13.5mm/65A	Yes	6.0mm	10.0mm ² /8AWG	M4	159mm	26mm	26mm	13.5mm	3.6mm	76A

Alternative Options

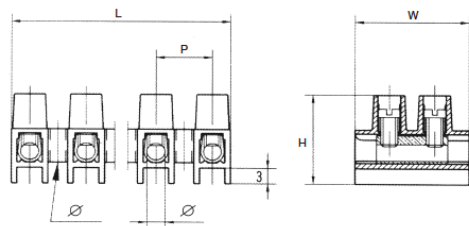
TYPE NO.	PITCH / UL RATING	WIRE PROTECTION	INSERT DIAMETER	CABLE ACCEPTANCE	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX CURRENT
CTSN433/12WL	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	31mm	16.8mm	10mm	2.8mm	41A
CTSN433/12L	10mm/30A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	31mm	16.8mm	10mm	2.8mm	41A
CTSN433/12WLC	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	31mm	21.5mm	10mm	2.8mm	41A
CTSN433/12LC	10mm/30A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	21mm	17.6mm	9.95mm	3.6mm	41A
CTSN433/12WS	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	21mm	17.3mm	10mm pin	3.5mm	41A
CTSN433/12S	10mm/30A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	21mm	17.3mm	10mm pin	3.5mm	41A
CTSN433/12WQ	10mm/30A	No	3.5mm	6.0mm ² /10AWG	M3	116mm	21mm	18.1mm	9.95mm	2.8mm	41A
CTSN433/12Q	10mm/30A	Yes	3.5mm	4.0mm ² /12AWG	M3	116mm	21mm	18.1mm	9.95mm	2.8mm	41A

INTERCONNECTION

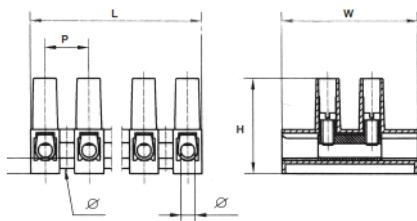
Standard type, no wire protection



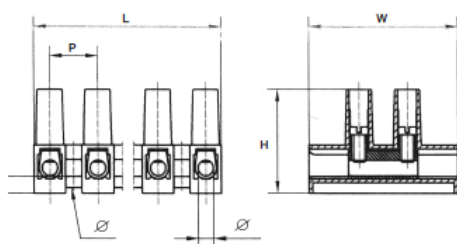
Raised base types - provides increased isolation



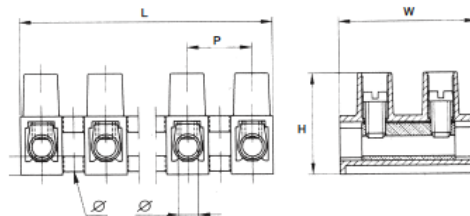
CTSN433/12LC larger isolating surface per pole and screw tower.
Complies with EN60598/1 4.7 and 11.2



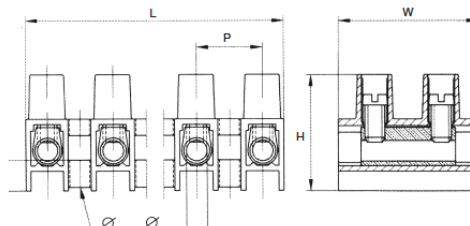
CTSN433/12L larger isolating surface per pole (750V, test voltage 3,000V)
Complies with EN60598/1 4.7 and 11.2



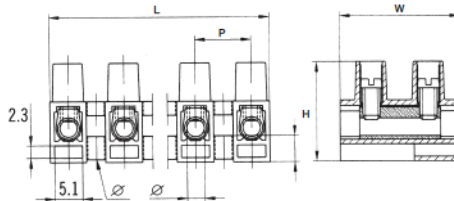
CTSN433/12T fast fixing hole between poles



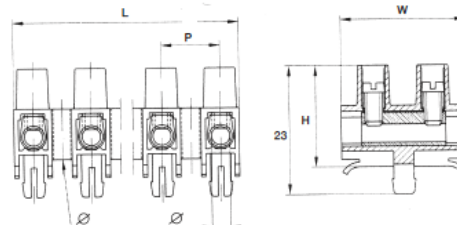
CTSN433/12TR fast fixing hole between poles and raised base



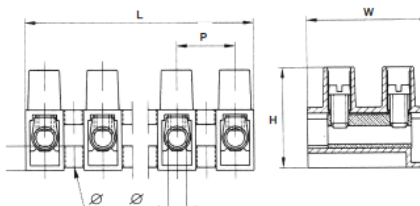
CTSN433/12TRG fast fixing hole between poles, raised base and socket in the base



CTSN433/12S fixing pin



CTSN433/12Q fixing hole between poles and wide base terminal connection



PCB
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BLOCKS

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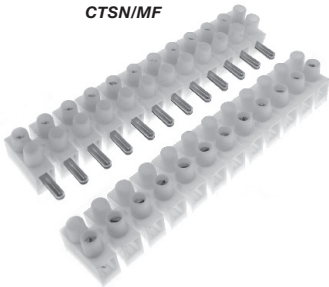
ENCLOSURES

BATTERIES

TRANS-
FORMERS

Pluggable Terminal Strips Plug in Style

- Moulded in natural PA6, self extinguishing to UL94-V2 or white PA6.6, self extinguishing to UL94-V0
- Easily cut to size
- Supplied cut to length on request
- Printing available on request
- CE Approved



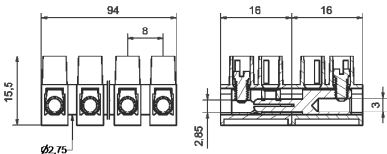
SPECIFICATION	
Voltage (max)	450V AC
Working temperature	110°C
No. of poles	12
Moulding	UL94-V2 Self extinguishing PA6 UL94-V0 Self extinguishing PA6.6
Conducting bush	Nikel plated brass
Screws	Zinc, plated steel

UL94-V2 Material

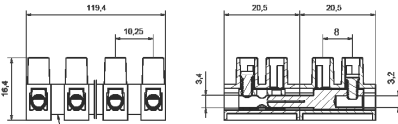
TYPE NO.	SIZE / RATING	INSERT DIAMETER	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX
CTSN431/12MF	8mm/6A	2.9mm	M3	94mm	16mm	15.5mm	8mm	2.75mm	
CTSN433/12MF	10.25mm/10A	3.4mm	M3	119.4mm	20.5mm	16.4mm	10.25mm	3.2mm	17.5A
CTSN434/12MF	12.5mm/16A	4.3mm	M3.5	143mm	23.5mm	19mm	12.3mm	3.5mm	24A 57A

UL94-V0 Material

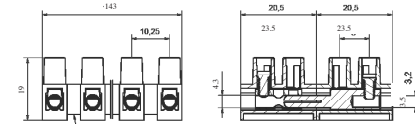
TYPE NO.	SIZE / RATING	INSERT DIAMETER	TERMINAL SCREWS	LENGTH	WIDTH	HEIGHT	PITCH	FIXING HOLE DIAMETER	MAX
CTSN631/12MF	8mm/6A	2.9mm	M3	94mm	16mm	15.5mm	8mm	2.75mm	
CTSN633/12MF	10.25mm/10A	3.4mm	M3	119.4mm	20.5mm	16.4mm	10.25mm	3.2mm	17.5A
CTSN634/12MF	12.5mm/16A	4.3mm	M3.5	143mm	23.5mm	19mm	12.3mm	3.5mm	24A 57A



CTSN431/12MF



CTSN433/12MF

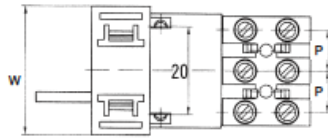
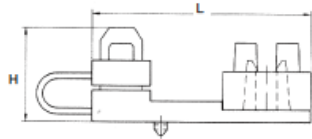
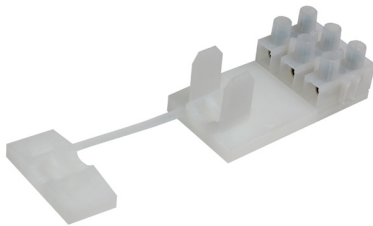


CTSN434/12MF

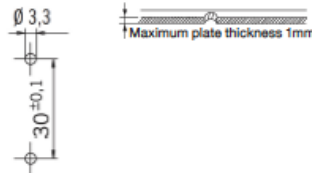
Strain relief

- Clamps external conductors in lighting fixtures according to EN60598
- Natural colour PA6
- Takes the strain on the wires
- Prevents conductors from twisting
- Protects wire coating from abrasion and friction

CSR



TYPE NO.	TERMINAL STRIP	LENGTH	WIDTH	HEIGHT
CSR1	CTSN431	49.5mm	31mm	22.5mm
CSR2	CTSN433 / CTSN433T	52.5mm	31mm	22.5mm
CSR3	CTSN434	54.5mm	31mm	22.5mm



INTERCONNECTION

PCB Mounted Terminal Strip

- 12 pole 10mm pitch strip
- Can be supplied cut to specified number of poles
- 2.5mm² cable entry
- Anti solder wicking terminals
- Captive screws
- Guided pin alignment
- Moulded in natural UL94-V2 flame retardant PA6
- Beige UL94-V0 PA66 option available to order
-  approved

CTBSN100H

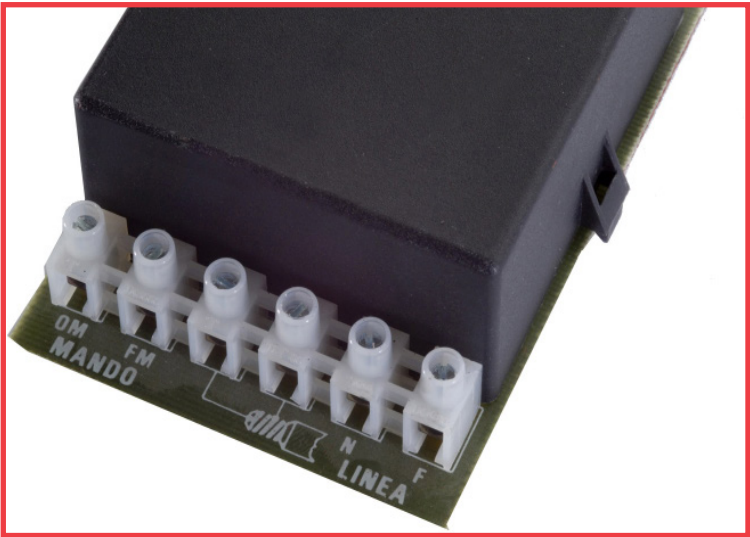
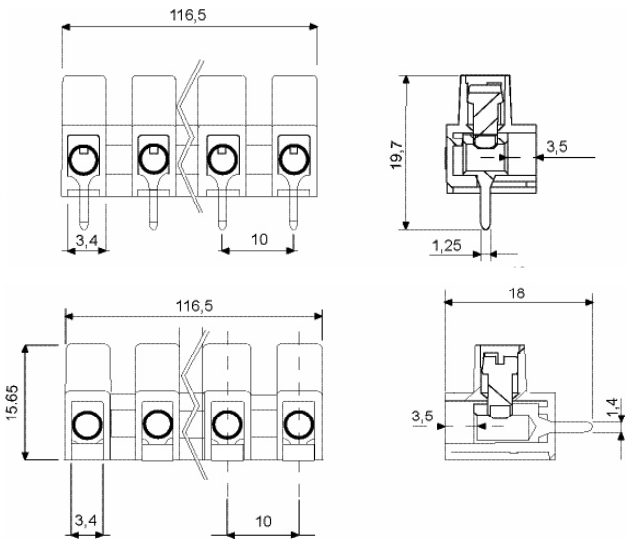


CTBSN100V



TYPE NO.	DESCRIPTION
CTBSN100V	vertical screw terminal
CTBSN100H	90° screw terminal

SPECIFICATION	
Rating	24A 450VAC
Glow wire test (EN 606 95-2-11)	960°C
Working temperature	-30°C to +110°C (PA6.6 to +150°C)
Moulding	UL94-V2 flame retardant PA6
Materials:	
Insert	Nickel plated brass
Screw	Zinc plated steel



PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

INTERCONNECTION

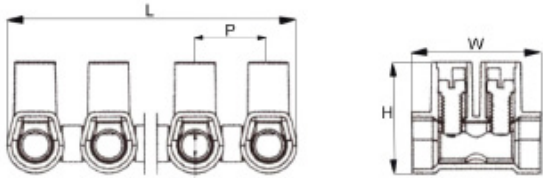
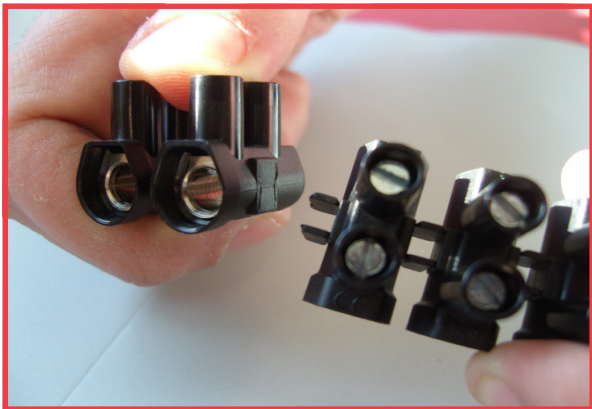
Easy Break Terminal Strips

- Easily snapped to required crsos
numbered of poles
- No remaining burrs
- No tools required to cut
to length
- Moulded in natural
UL94-V2 self extinguishing
PA6, black optional
- Supplied with screws in
raised position
- 12 poles as standard
- Halogen free
- CE Approved



SPECIFICATION	
Voltage max	450V AC
Working temperature	-30°C to + 110°C
Moulding	UL94-V2 self extinguishing PA6
Insert	Nickel Plated Brass
Screws	Zinc-plated steel

TYPE NO.	CURRENT RATING	CONNECTING CAPACITY	MIN CONDUCTOR SECTION	LENGTH(L)	WIDTH(W)		TERMINAL	
CTSOS431	24A	2.5mm ²	1mm ²	95.5mm	17.5mm			
CTSOS433	41A	6mm ²	2.5mm ²	118mm	19mm	14.75mm	8mm	M3
CTSOS434	57A	10mm ²	4mm ²	142mm	20.8mm	15.6mm	10mm	M3
CTSOS435	76A	16mm ²	6mm ²	160mm	23mm	18.2mm	12mm	M3.5
CTSOS438	125A	35mm ²	16mm ²	176.5mm	25.5mm	21.2mm	13.5mm	M4
						28mm	15mm	M5



PCB
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BLOCKS

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SUPPORTS

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BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

INTERCONNECTION

Line Taps

- Enables connection of additional wires without cutting main conductor
- Capacity from 2x6mm² to 2x150mm²
- Up to 35mm² supplied as 12 pole strips, easily divided
- 50mm² and above supplied singularly, easily interlocked
- 50mm² and above available with Allen screws
- Supplied with raised screws
- Halogen free
- CE approved

CISB



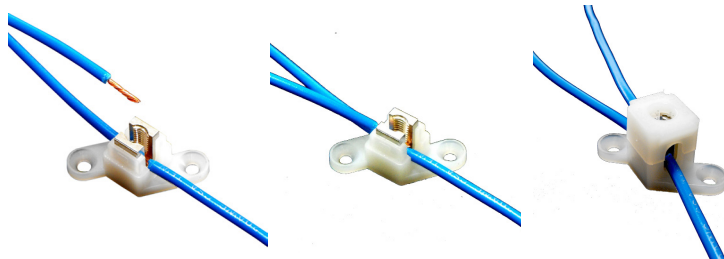
SPECIFICATION

Voltage max	CISB6-35	500V
	CISB50-150	1000V
Working temperature	-30°C to + 110°C	
Moulding	Natural UL94-V2 self extinguishing PA6	
Insert	Nickel Plated Brass	
Screws	Zinc-plated brass	

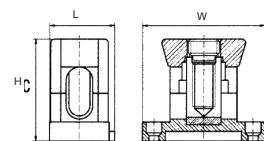


TYPE NO.	POLES	CURRENT RATING	CAPACITY MIN	CAPACITY MAX	LENGTH	WIDTH	HEIGHT	FIXING HOLE DIAMETER	TERMINAL	ALLEN SCREW
CISB6	12	41A	2x2.5mm ²	2x6mm ²	188mm	29mm	17mm	3.2mm		
CISB10	12	57A	2x4mm ²	2x10mm ²	224mm	31mm	23mm	3.2mm	M5	
CISB16	12	76A	2x6mm ²	2x16mm ²	260mm	32mm	26mm	3.2mm	M7	
CISB35	12	125A	2x16mm ²	2x35mm ²	308mm	36mm	34mm	3.2mm	M8	
CISB50	1	150A	2x25mm ²	2x50mm ²	32mm	63mm	48mm	5.2mm	M12	
CISB70	1	192A	2x35mm ²	2x70mm ²	34mm	63mm	53mm	5.2mm	M14	5
CISB95	1	232A	2x50mm ²	2x95mm ²	39mm	63mm	56mm	5.2mm	M16	6
CISB120	1	269A	2x70mm ²	2x120mm ²	41mm	70mm	61mm	5.2mm	M18	8
CISB150	1	309A	2x95mm ²	2x150mm ²	56.8mm	115mm	82mm	5.2mm	M20	8
									M28	14

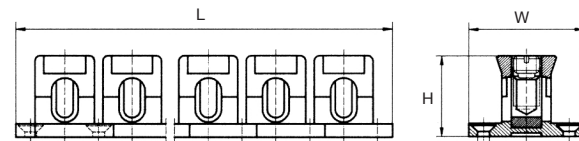
Allen Screw Option available on 1-pole types, add suffix /A to Type No. (e.g. CISB120/A)



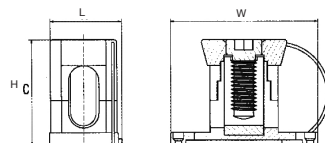
CISB 1 pole



CISB 12 pole



CISB 150



INTERCONNECTION

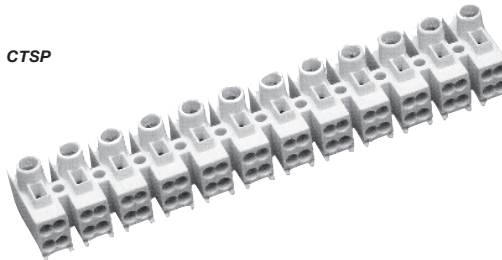
Screw to Screwless Terminal strips

- Moulded in UL94-V2 self extinguishing PA66
- Fast connection of two or four solid conductors
- Screw to screw earth terminal
- Raised screws for easier insertion of conductors
- 12-poles, 2-poles plus earth, 3-poles plus earth or 4-poles plus earth
- 12-pole types can be pre-cut to specified number of poles
- All earth types marked with symbols for Live, Earth and Neutral
- CE 72/73 and 93/68
- Compliant with EN60598 4.7 and 11.2 (EN60598/1 for CTS4P series)
- All tests from EN60998-1, EN60998-2-1 and EN60998-2-2
- ,  &  approved

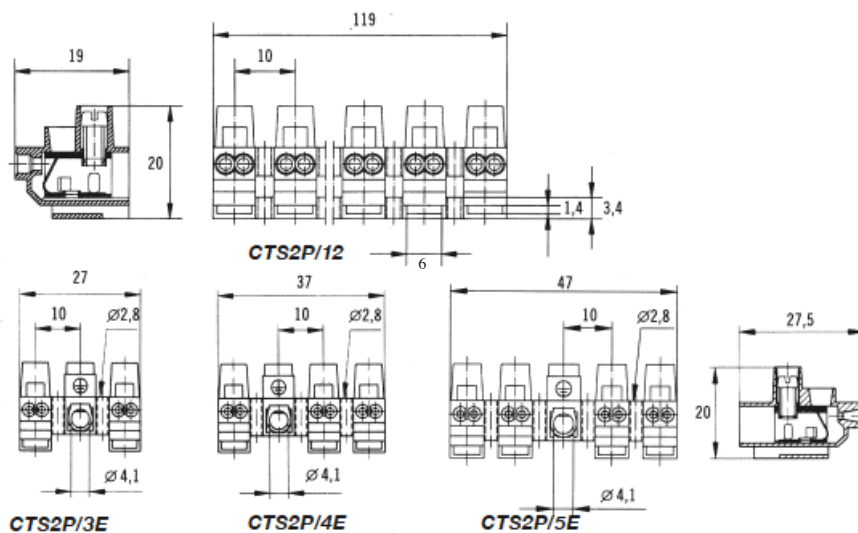
SPECIFICATION

Ratings (max)	24A/450V	
Working temperature	110°C	
Moulding	UL94-V0 self extinguishing PA66	
Earth insert	Nickel-plated brass	
Push-in terminal	Insert	Steel
	Clamping spring	Stainless Steel
Fixing pitch	10mm	

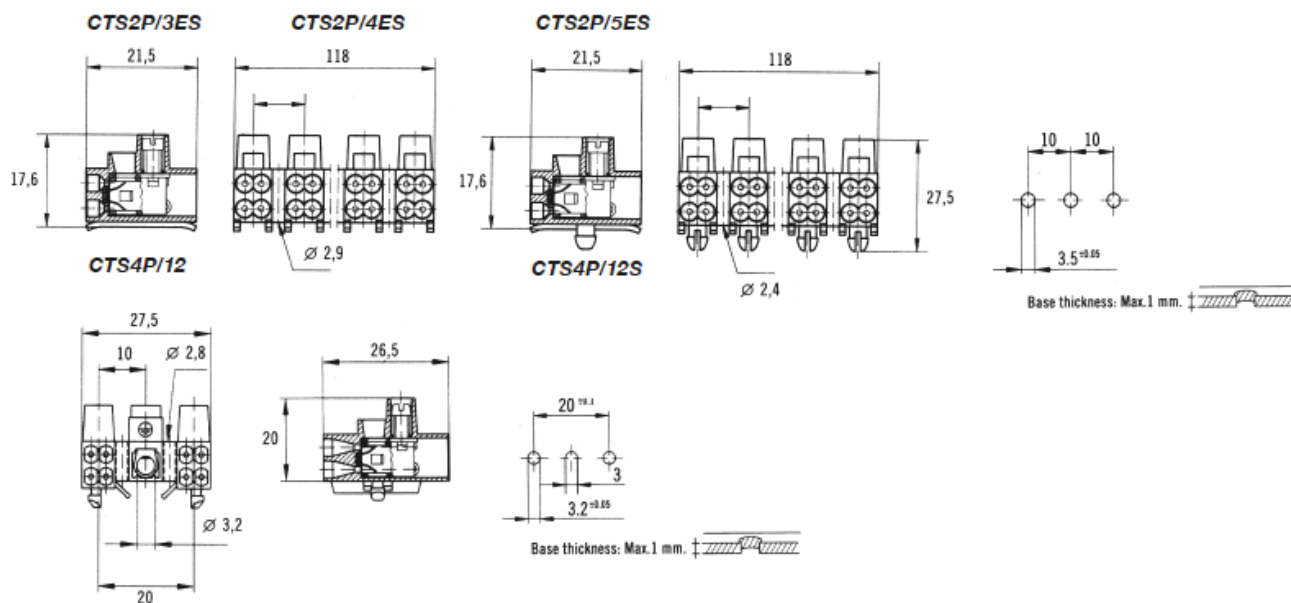
CTSP



TYPE NO.	POLES	CONNECTING CAPACITY		CONDUCTOR SECTION (MIN)		LENGTH	WIDTH	HEIGHT	EARTH INSERT DIAMETER	FIXING HOLE DIAMETER
		SCREW	FAST (RIGID)	SCREW	FAST (RIGID)					
CTS2P/12	12	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	119mm	19mm	20mm	-	2.8mm
CTS2P/3E	3 (2+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	27mm	27.5mm	20mm	4.1mm	2.8mm
CTS2P/3ES	3 (2+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	27mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS2P/4E	4 (3+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	37mm	27.5mm	20mm	4.1mm	2.8mm
CTS2P/4ES	4 (3+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	37mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS2P/5E	5 (4+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	47mm	27.5mm	20mm	4.1mm	2.8mm
CTS2P/5ES	5 (4+earth)	2.5mm ²	2x 1.5mm ²	1mm ²	0.75mm ²	47mm	27.5mm	20mm	4.1mm	drill 3.2mm
CTS4P/12	12	2.5mm ²	4x 1.5mm ²	1mm ²	0.75mm ²	118mm	21.5mm	17.6mm	-	2.9mm
CTS4P/12S	12	2.5mm ²	4x 1.5mm ²	1mm ²	0.75mm ²	118mm	21.5mm	17.6mm	-	drill 3.5mm
CTS4P/3ES	3 (2+earth)	2.5mm ²	4x 1.0mm ²	1mm ²	0.75mm ²	27.5mm	26.5mm	20mm	3.2mm	drill 3.2mm



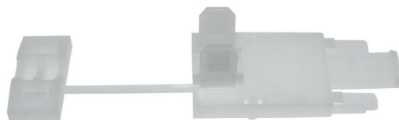
INTERCONNECTION



Strain relief

- Clamps external conductors in lighting fixtures according to EN 60598
- Natural colour PA6
- Takes the strain on the wires
- Prevents conductors from twisting
- Protects wire coating from abrasion and friction

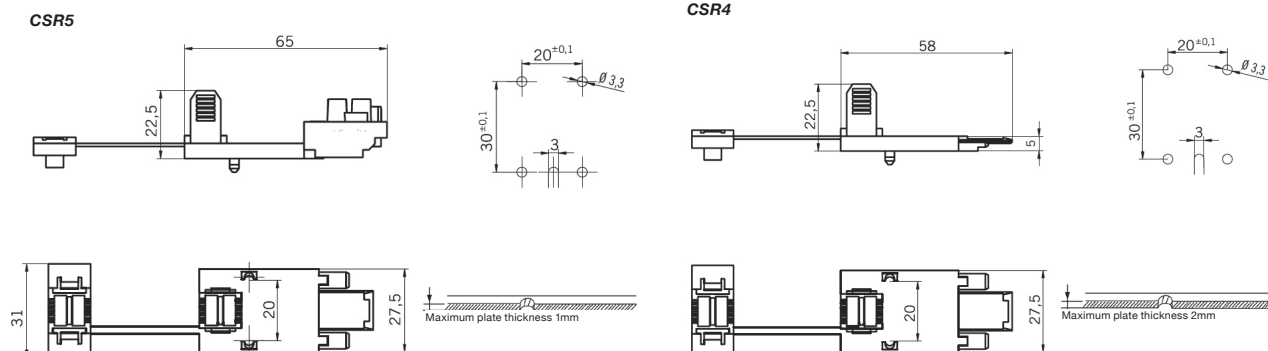
CSR



TYPE NO. CONNECTOR TYPE NO.

CSR4 CTS2P/E & CTS2P/ES

CSR5 CTS4P/ES



PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

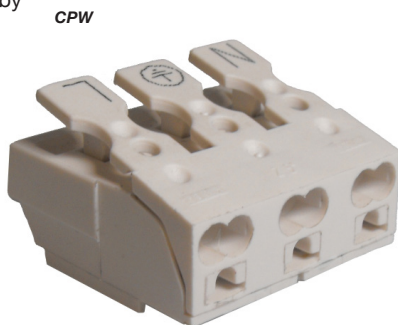
BATTERIES

TRANS-
FORMERS

INTERCONNECTION

Push-in Fast Connectors

- Screwless connectors for fast and secure wiring installations
- Installation side wires held by lever clamp
- Appliance side held by spring clamp
- Additional entry for cable capacitors
- Suitable for rigid & single strand copper wire
- Moulded in UL94-V0 self extinguishing PA66
- 2 to 5 poles
- Three different types of earth
- Fixing pin options
- Custom terminal markings available on request
- Halogen free
- CE, RoHS & REACH approvals
- Glow Wire Tested EN60695-2-11



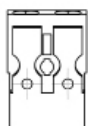
SPECIFICATION		
Rating (max)	450V AC 24A	
Working temperature	-30°C to 110°C	
Moulding	UL94-V0 self extinguishing PA66	
Insert strap	Steel	
Insert	Steel	
Marking	Standard	
	N	Neutral
	L	Live
Cable capacity	Appliance side Max.	2x 2.5mm ²
		Appliance side Min.
	Capacitor Max.	0.75mm ²
	Capacitor Min.	0.5mm ²
	Installation side Max.	2x 2.5mm ²
	Installation side Min.	1mm ²
Wire Trimmings lengths	0.5mm ² to 1mm ²	8mm - 9mm
	1.5mm ² to 2mm ²	9mm - 10mm
	Capacitor	9mm - 11mm

Without fixing pins

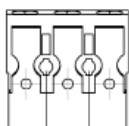
POLES	WITHOUT EARTHING	EARTH A	EARTH B	EARTH C
2	CPW2			
3(2 + Earth)	CPW3	CPW3A	CPW3B	CPW3C
4(3 + Earth)	CPW4	CPW4A	CPW4B	CPW4C
5(4 + Earth)	CPW5	CPW5A	CPW5B	CPW5C

With fixing pins

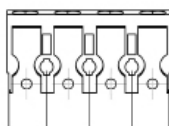
POLES	WITHOUT EARTHING	EARTH A	EARTH B	EARTH C
3(2 + Earth)	CPW3S	CPW3SA	CPW3SB	CPW3SC
4(3 + Earth)	CPW4S	CPW4SA	CPW4SB	CPW4SC
5(4 + Earth)	CPW5S	CPW5SA	CPW5SB	CPW5SC



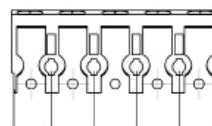
CPW2



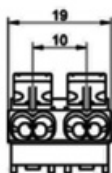
CPW3



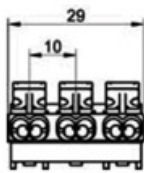
CPW4



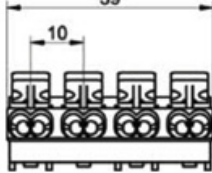
CPW5



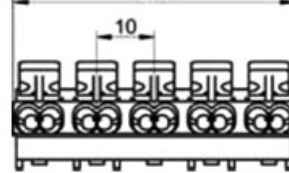
CPW2



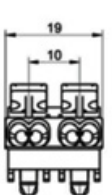
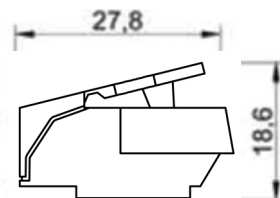
CPW3



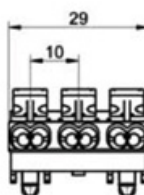
CPW4



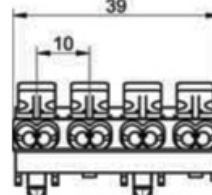
CPW5



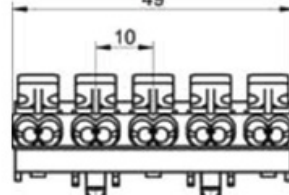
CPW2S



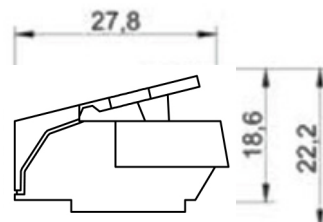
CPW3S



CPW4S

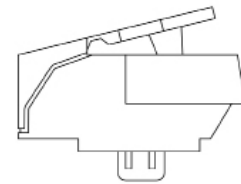
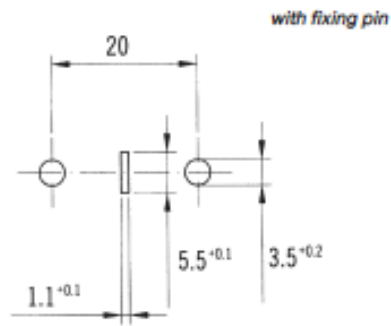
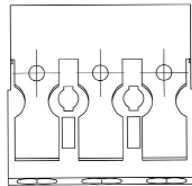


CPW5S

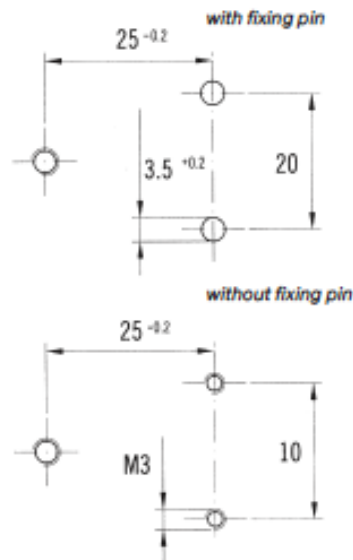


INTERCONNECTION

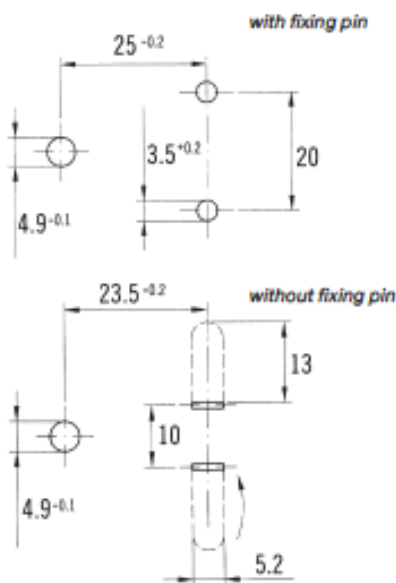
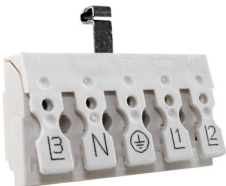
Earth A



Earth B



Earth C

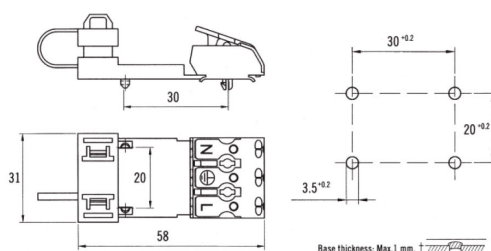


Strain Relief

- To clamp installation cables
- Easy fitting

CSR6

TYPE NO. FAST CONNECTOR
CSR6 CPW



+44 (0)1638 716101
info@camdenboss.com
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our products are subject to change without notice.

Ver 1.1

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ENCLOSURES

BATTERIES

TRANS-
FORMERS

INTERCONNECTION

Barrier Strips

6.35mm (.250") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PA66
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

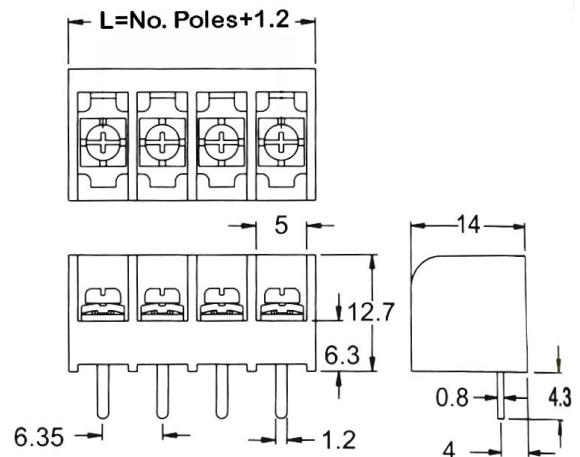
CBS40



TYPE NO.	POLES	LENGTH
CBS40ST8/2	2	13.9mm
CBS40ST8/3	3	20.3mm
CBS40ST8/4	4	26.6mm
CBS40ST8/5	5	33mm
CBS40ST8/6	6	39.3mm
CBS40ST8/7	7	45.7mm
CBS40ST8/8	8	52mm
CBS40ST8/9	9	58.4mm
CBS40ST8/10	10	64.7mm
CBS40ST8/11	11	71.1mm
CBS40ST8/12	12	77.4mm

SPECIFICATION

Rating	10A/300V AC
Wire range	0.05 - 1.3mm ² (16-30AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PA66
Screw torque	1Nm (10lb-in)
Screw	M3.0, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø1.6mm - ø1.8mm



8.25mm (.325") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  us approved

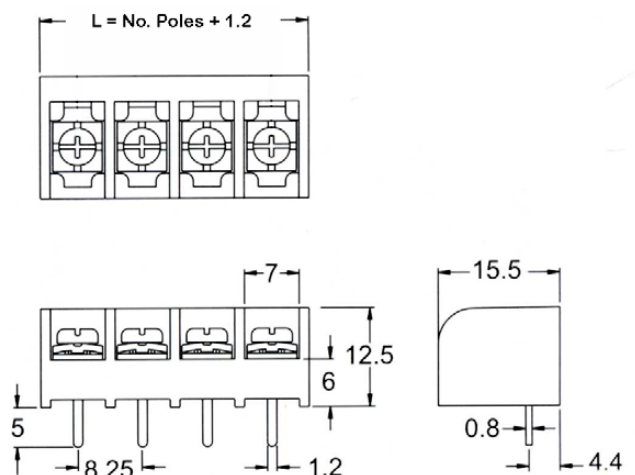
CBS42



TYPE NO.	POLES	LENGTH
CBS42ST8/2	2	17.7mm
CBS42ST8/3	3	26mm
CBS42ST8/4	4	34.2mm
CBS42ST8/5	5	42.5mm
CBS42ST8/6	6	50.7mm
CBS42ST8/7	7	59mm
CBS42ST8/8	8	67.2mm
CBS42ST8/9	9	75.5mm
CBS42ST8/10	10	83.7mm
CBS42ST8/11	11	92mm
CBS42ST8/12	12	100mm

SPECIFICATION

Rating	15A/300V AC
Wire range	0.3 - 2mm ² (22-14AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PBT
Screw torque	1.35Nm (12lb-in)
Screw	M3.0, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø1.6mm - ø1.8mm



INTERCONNECTION

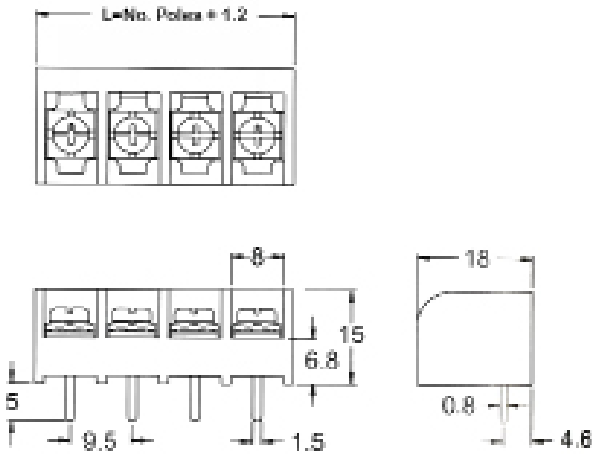
9.5mm (.374") Pitch Tri Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  approved



TYPE NO.	POLES	LENGTH
CBS44ST8/2	2	20.4mm
CBS44ST8/3	3	29.4mm
CBS44ST8/4	4	39.4mm
CBS44ST8/5	5	48.9mm
CBS44ST8/6	6	58.4mm
CBS44ST8/7	7	67.9mm
CBS44ST8/8	8	77.4mm
CBS44ST8/9	9	86.9mm
CBS44ST8/10	10	96.4mm
CBS44ST8/11	11	106mm
CBS44ST8/12	12	115mm

SPECIFICATION	
Rating	15A/300V AC
Wire range	0.3 - 2mm ² (14-22AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PBT
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø2mm - ø2.2mm



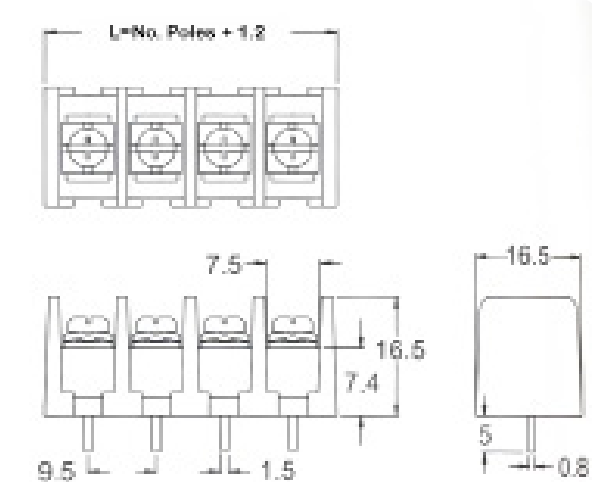
9.5mm (.374") Pitch Dual Barrier PCB Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 Flame retardant PBT
- Rising saddle washer terminals
- Other Terminal styles available on request
-  approved



TYPE NO.	POLES	LENGTH
CBS34ST8/2	2	21.5mm
CBS34ST8/3	3	31mm
CBS34ST8/4	4	40.5mm
CBS34ST8/5	5	50mm
CBS34ST8/6	6	59.5mm
CBS34ST8/7	7	69mm
CBS34ST8/8	8	78.5mm
CBS34ST8/9	9	88mm
CBS34ST8/10	10	97.5mm
CBS34ST8/11	11	107mm
CBS34ST8/12	12	117mm

SPECIFICATION	
Rating	20A/300V AC
Wire range	0.3 - 3.3mm ² (14-22AWG)
Working temperature	- 40°C to 120°C
Moulding	Black UL94-V0 PBT
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC
Recommended PCB hole size	ø2mm - ø2.2mm



PCB
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INTERCONNECTION

9.5mm (.374") Pitch Dual Barrier Chassis Mount Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 flame retardant polyimide
- Integral mounting holes
- Screw rising saddle washer available on request
-  us approved

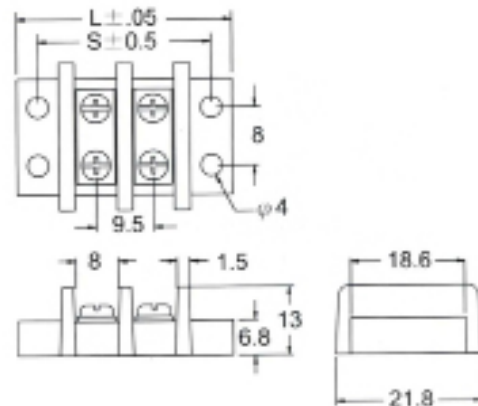
CBS64



TYPE NO.	POLES	MOUNTING PITCH	LENGTH
CBS64ST8/2	2	28.7mm	36.2mm
CBS64ST8/3	3	38.2mm	45.7mm
CBS64ST8/4	4	47.7mm	55.2mm
CBS64ST8/5	5	57.2mm	64.7mm
CBS64ST8/6	6	66.7mm	74.2mm
CBS64ST8/7	7	76.2mm	83.7mm
CBS64ST8/8	8	85.7mm	93.2mm
CBS64ST8/9	9	95.2mm	103mm
CBS64ST8/10	10	105mm	112mm
CBS64ST8/11	11	114mm	122mm
CBS64ST8/12	12	124mm	131mm

SPECIFICATION

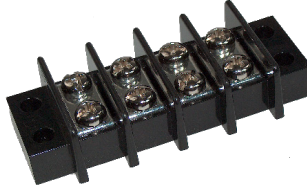
Rating	20A/300V AC
Wire range	0.3 - 3.3mm ² (12-22AWG)
Working temperature	- 40°C to 105°C
Moulding	Black UL94-V0 Polyimide
Screw torque	1.35Nm (12lb-in)
Screw	M3.5, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC



11mm (.433") Pitch Dual Barrier Chassis Mount Barrier Strip

- 2 to 30 poles
- Moulded in Black UL94-V0 flame retardant polyimide
- Integral mounting holes
- Screw rising saddle washer available on request
-  us approved

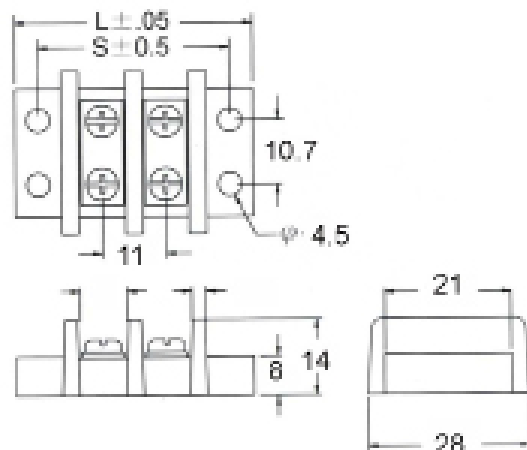
CBS66

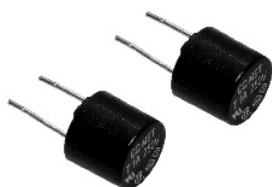


TYPE NO.	POLES	MOUNTING PITCH	LENGTH
CBS66ST8/2	2	32.4mm	41.2mm
CBS66ST8/3	3	43.5mm	52.3mm
CBS66ST8/4	4	54.6mm	63.4mm
CBS66ST8/5	5	65.7mm	74.5mm
CBS66ST8/6	6	76.8mm	85.6mm
CBS66ST8/7	7	87.9mm	96.7mm
CBS66ST8/8	8	99mm	108mm
CBS66ST8/9	9	110mm	119mm
CBS66ST8/10	10	121mm	130mm
CBS66ST8/11	11	132mm	141mm
CBS66ST8/12	12	143mm	152mm

SPECIFICATION

Rating	25A/300V AC
Wire range	0.3 - 2mm ² (14-22AWG)
Working temperature	- 40°C to 105°C
Moulding	Black UL94-V0 Polyimide
Screw torque	1.35Nm (12lb-in)
Screw	6-32, steel Ni plated
Terminal	Brass, tin plated
Withstand voltage	2000V AC
Insulation Resistance	>5000MΩ @ 500VDC





QUALITY YOU CAN'T REFUSE

For a wide current range of UL, CSA and VDE approved Fuseholders, Glass and Ceramic fuses, Radial and Surface Mount fuses, Power Fuses and PTC fuses see pages 88-115.

INTERCONNECTION

2.5mm Pitch PCB Mounting Crimp Connectors

- Ideal for installed PCB's in boiler controls, HVAC
- Polarised to avoid mis-mating
- Vertical headers
- 2 to 20 poles
- Staggered pin header available (CTM601)
- Two sizes of crimp contact

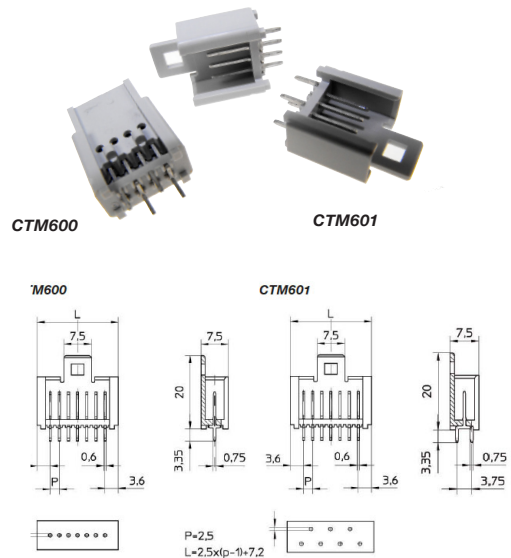
SPECIFICATION

Rating (Male connectors)	125V/6A
Working temperature	110°C
Moulding	Grey UL94-V0 flame retardant PA
Contact	Male Tinned, nickel plated brass
	Female Tinned brass
Wire strip length	4mm

PCB Mounting Male

TYPE NO.	POLES	LENGTH
CTM600/2	2	12.2mm
CTM600/3	3	14.7mm
CTM600/4	4	17.2mm
CTM600/5	5	19.7mm
CTM600/6	6	22.2mm
CTM600/7	7	24.7mm
CTM600/8	8	27.2mm
CTM600/9	9	29.7mm
CTM600/10	10	32.2mm
CTM600/11	11	34.4mm
CTM600/12	12	37.2mm
CTM600/13	13	39.7mm
CTM600/14	14	42.2mm
CTM600/15	15	44.7mm
CTM600/16	16	47.2mm
CTM600/17	17	49.7mm
CTM600/18	18	52.2mm
CTM600/19	19	54.7mm
CTM600/20	20	57.2mm

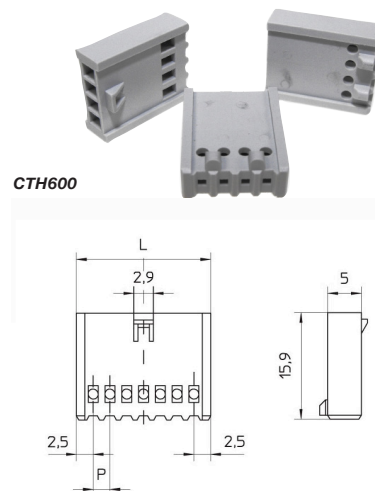
TYPE NO.	POLES	LENGTH
CTM601/2	2	12.2mm
CTM601/3	3	14.7mm
CTM601/4	4	17.2mm
CTM601/5	5	19.7mm
CTM601/6	6	22.2mm
CTM601/7	7	24.7mm
CTM601/8	8	27.2mm
CTM601/9	9	29.7mm
CTM601/10	10	32.2mm
CTM601/11	11	34.4mm
CTM601/12	12	37.2mm
CTM601/13	13	39.7mm
CTM601/14	14	42.2mm
CTM601/15	15	44.7mm
CTM601/16	16	47.2mm
CTM601/17	17	49.7mm
CTM601/18	18	52.2mm
CTM601/19	19	54.7mm
CTM601/20	20	57.2mm



Female Housing

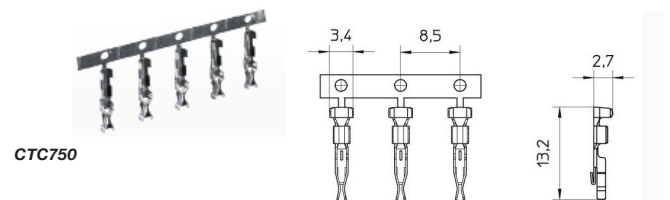
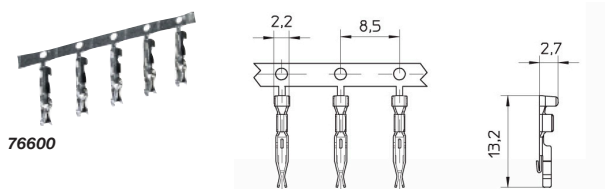
TYPE NO.	POLES	LENGTH
CTH600/2	2	7.5mm
CTH600/3	3	10mm
CTH600/4	4	12.5mm
CTH600/5	5	15mm
CTH600/6	6	17.5mm
CTH600/7	7	20mm
CTH600/8	8	22.5mm
CTH600/9	9	25mm
CTH600/10	10	27.5mm
CTH600/11	11	30mm

TYPE NO.	POLES	LENGTH
CTH600/12	12	32.5mm
CTH600/13	13	35mm
CTH600/14	14	37.5mm
CTH600/15	15	40mm
CTH600/16	16	42.5mm
CTH600/17	17	45mm
CTH600/18	18	47.5mm
CTH600/19	19	50mm
CTH600/20	20	52.5mm



Crimps

TYPE NO.	RATING	WIRE SIZE
CTC600	6A	0.2 — 0.35mm ² 24 — 22AWG
CTC750	7.5A	0.2 — 0.5mm ² 24 — 20AWG



INTERCONNECTION

5.08mm Pitch PCB Mounting Crimp Connectors

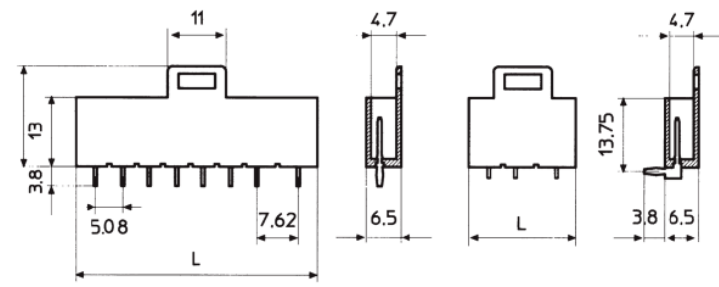
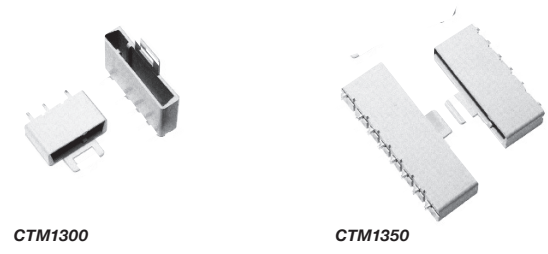
- Ideal for installed PCB's in boiler controls, HVAC
- Polarised to avoid mis-mating
- Horizontal and vertical headers
- 2 to 8 poles

PCB Mounting Male

TYPE NO.	POLES	LENGTH
CTM1300/2	2	15.1mm
CTM1300/3	3	20.2mm
CTM1300/4	4	25.3mm
CTM1300/5	5	30.4mm
CTM1300/6	6	35.5mm
CTM1300/7	7	40.5mm
CTM1300/8	8	45.6mm

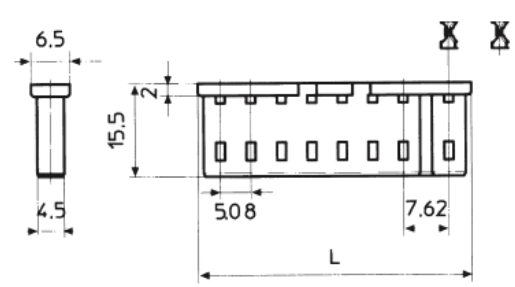
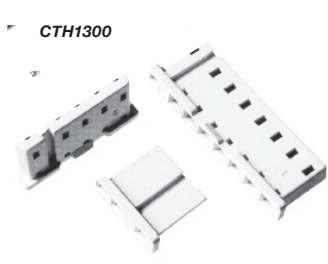
TYPE NO.	POLES	LENGTH
CTM1350/2	2	15.1mm
CTM1350/3	3	20.2mm
CTM1350/4	4	25.3mm
CTM1350/5	5	30.4mm
CTM1350/6	6	35.5mm
CTM1350/7	7	40.5mm
CTM1350/8	8	45.6mm

SPECIFICATION		
Rating (Male connectors)	320V/4A	
Working temperature	85°C	
Contact resistance	≤10mOhms	
Moulding	Grey UL94-V0 PA	
Contact	Male	Tinned, nickel plated brass
	Female	Tinned brass
Cable	Female	0.5mm to 1mm



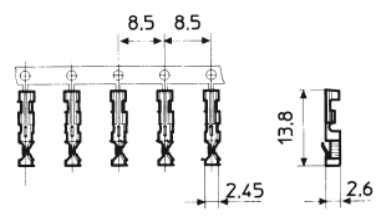
Female Housing

TYPE NO.	POLES	LENGTH
CTH1300/2	2	15.1mm
CTH1300/3	3	20.2mm
CTH1300/4	4	25.3mm
CTH1300/5	5	30.4mm
CTH1300/6	6	35.5mm
CTH1300/7	7	40.5mm
CTH1300/8	8	45.6mm



Crimps

TYPE NO.	RATING	WIRE SIZE
CTC1300	4A	0.05 - 1.3mm ² 30 — 16AWG



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SWITCHES

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SUPPORTS

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BATTERIES

TRANS-
FORMERS



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our products are subject to change without notice.

Ver 1.1



INTERCONNECTION

IC Sockets & Adaptors

- Precision turned pins
- Twist free construction
- Side and end stackable
- Anti wicking pin design
- Moulded in UL94-V0 polyester
- High solderability pin design
- 200 operations minimum life

SPECIFICATION

Rating	3A
Contact resistance	<4mΩ
Insulation resistance	10 ³ MΩ at 100V
Temperature range	-55°C to 125°C
Housing	UL94-V0 glass filled polyester
Contact	Beryllium copper, heat treated
Plating	2µm/80µ" nickel
	5µm/200µ" tin
Insertion force	<250g
Withdrawal force	>50g

IC Sockets Dual-In-Line

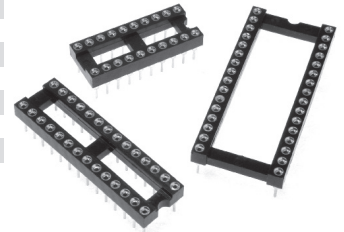
- 6-64 pins
- Low profile
- High retention design prevents IC walkout during heavy vibrations

TYPE NO.	POLES	ROW SPACING
CICS/3/6	6	0.3"
CICS/3/8	8	0.3"
CICS/3/14	14	0.3"
CICS/3/16	16	0.3"
CICS/3/18	18	0.3"
CICS/3/20	20	0.3"
CICS/3/24	24	0.3"
CICS/3/28	28	0.3"
CICS/6/24	24	0.6"

TYPE NO.	POLES	ROW SPACING
CICS/6/24W	24	0.6"
CICS/6/28	28	0.6"
CICS/6/28W	28	0.6"
CICS/6/32	32	0.6"
CICS/6/32W	32	0.6"
CICS/6/40	40	0.6"
CICS/6/40W	40	0.6"
CICS/9/64	64	0.9"

W = without central bar

CICS

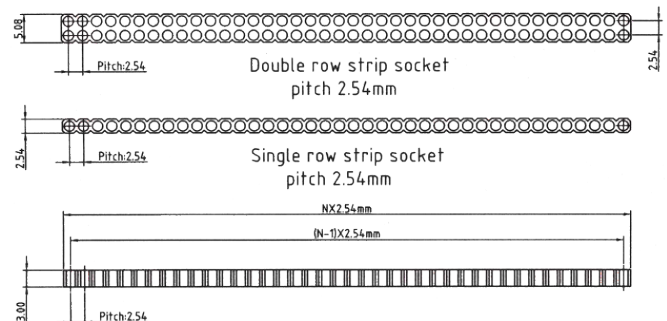


IC Pin Strips

- Single & double rows
- Available cut to required size

TYPE NO.	POLES
CSICS/40	40
CDICS/80	80

CSICS



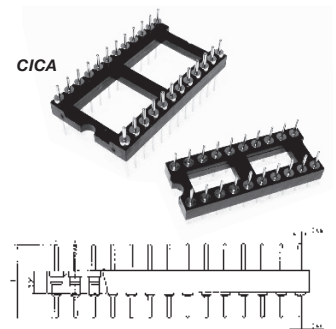
Adaptor Sockets Dual-In-Line

- Male header contacts for connecting to IC sockets
- Ideal for sandwich PCB construction

TYPE NO.	PIN HEIGHT	ROW PITCH	NO PINS
CICA100/3/14	10mm	0.3"	14
CICA100/3/16	10mm	0.3"	16
CICA100/3/18	10mm	0.3"	18
CICA100/3/20	10mm	0.3"	20
CICA100/6/24	10mm	0.6"	24
CICA100/6/28	10mm	0.6"	28
CICA100/6/32	10mm	0.6"	32
CICA100/6/40	10mm	0.6"	40

TYPE NO.	PIN HEIGHT	ROW PITCH	NO PINS
CICA137/3/14	13.7mm	0.3"	14
CICA137/3/16	13.7mm	0.3"	16
CICA137/3/18	13.7mm	0.3"	18
CICA137/3/20	13.7mm	0.3"	20
CICA137/6/24	13.7mm	0.6"	24
CICA137/6/28	13.7mm	0.6"	28
CICA137/6/32	13.7mm	0.6"	32
CICA137/6/40	13.7mm	0.6"	40

CICA

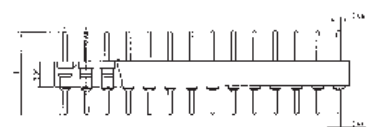


Adaptor Strips

- Single & double rows
- Male header contacts for connecting to IC sockets
- Ideal for sandwich PCB construction

TYPE NO.	PIN HEIGHT	NO. PINS
CSICA100/40	10mm	40
CSICA100/80	10mm	80
CSICA137/40	13.7mm	40
CSICA137/80	13.7mm	80

CSICA

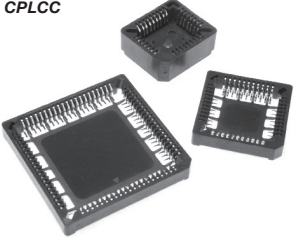


INTERCONNECTION

PLCC Sockets

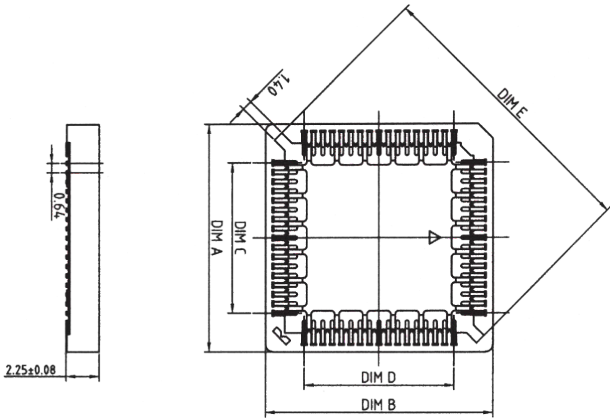
- Sizes 20, 28, 32, 44, 52, 68 & 84
- JEDEC type A square chips
- Low profile
- Visual polarisation for easy assembly
- Stand-offs for cleaning and good heat dissipation
- Solder tails on 0.1" square grid
- SMT on 0.05" grid

CPLCC

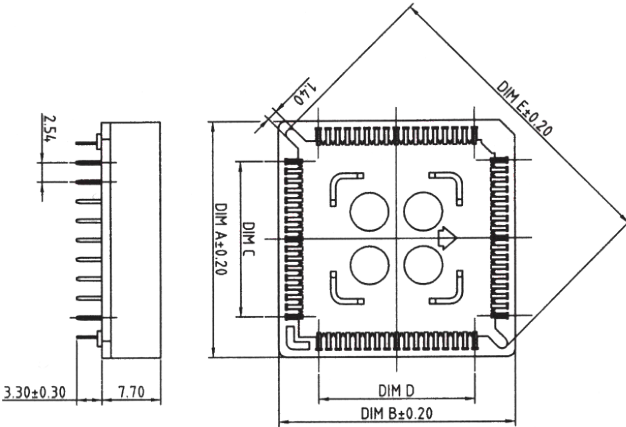


SPECIFICATION	
Contact resistance	≤30mΩ
Dielectric strength	500V AC/60sec
Insulation resistance	≥1000MΩ min at 500DCV
Temperature range	-55°C to 110°C
Housing	UL94-V0 glass filled thermoplastic
Contact	Phosphor bronze
Plating	2µm/80µ" nickel 3µm/120µ" tin

TYPE NO.	POLES	DIM A	DIM B	DIM C	DIM D	DIM E	MOUNTING
CPLCC/20	20	15.58	15.58	5.08	5.08	18.51	Through hole
CPLCC/28	28	18.12	18.12	7.62	7.62	22.20	Through hole
CPLCC/32	32	18.12	20.66	7.62	10.16	23.89	Through hole
CPLCC/44	44	23.20	23.20	12.70	12.70	29.28	Through hole
CPLCC/52	52	25.74	25.74	15.24	15.24	32.88	Through hole
CPLCC/68	68	30.82	30.82	20.32	20.32	40.06	Through hole
CPLCC/84	84	35.90	35.90	25.40	25.40	47.25	Through hole
CPLCC/20/0	20	15.58	15.58	5.08	5.08	17.11	SMT
CPLCC/28/0	28	18.12	18.12	7.62	7.62	20.70	SMT
CPLCC/32/0	32	18.12	20.66	7.62	10.16	22.49	SMT
CPLCC/44/0	44	23.20	23.20	12.70	12.70	27.88	SMT
CPLCC/52/0	52	25.74	25.74	15.24	15.24	31.48	SMT
CPLCC/68/0	68	30.82	30.82	20.32	20.32	38.66	SMT
CPLCC/84/0	84	35.90	35.90	25.40	25.40	45.85	SMT



Through Hole



Surface Mount

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FUSES & FUSEHOLDERS

LEDS &
INDICATORS**FUSED TERMINAL BLOCKS**5x20mm Fuse Terminal Block
6.3x25mm Fuse Terminal BlockCFTBN
CMFTBp91
p92MINIATURE
SWITCHES**PCB FUSEHOLDER****5.08mm pitch**

For Plug-in fuses

5x20mm

PCB Fuse Carriers

CSICS

p92

LIMIT &
SAFETY
SWITCHES

Compact Horizontal & Vertical

Straight Pin

Kinked Pin

Cover

Vertical

Horizontal

With Spigot

No Spigot

With Spigot

Cover For With Spigot

No Spigot

Cover For No Spigot

CFH02
CFH02W
CFH02H
CFH06
CFH07
CFH17S
CFH17
CFH14S
CFH14HG
CFH14
CFH14HBp93
p93
p93
p93
p93
p95
p95
p95
p95
p95
p95
p95CONTROL
PRODUCTS

Semi-enclosed 22.6mm pitch

INTERFACE
MODULES &
SUPPORTS**PANEL MOUNT FUSEHOLDER****5x20mm**

Low Profile

Screw Carrier, 2.8mm Quick Connect
Bayonet Carrier, 2.8mm Quick Connect
Bayonet Carrier, 4.8mm Quick Connect
Bayonet Carrier, 4mm Quick ConnectCFH04
CFH09
CFH12
CFH18
CFH05
CFH08
CFH11p96
p96
p96
p96
p97
p97
p97RELAY
BASES

Standard Panel Mounting

Snap Fit

Bayonet Carrier, Finger Release

6.3x32mm

Low Profile

Screw Carrier, Screw Driver Release

CFH20

p98

ENCLOSURES

CHASSIS MOUNT FUSEHOLDER**5x20mm**

15A Rated

6.3x32mm

Chassis Mount

CFH15

p99

BATTERIES

CFH16

p100

MULTI-SIZE IN-LINE FUSEHOLDER

CFH10

p100

TRANS-
FORMERS**AXIAL FUSES****5x20mm**

Glass Fuses

Quick Blow/Fast acting
Time DelayCF0520F
CF0520T
CF0521CF
CF0521CTp101
p101
p101
p101

Ceramic Fuses

Quick Blow/Fast acting
Time DelayCF06325FG
CF06325TGp102
p102**6.3x25mm**

Glass Fuses British Plug Top Fuses

Ceramic

CFA1362/A

p102

6.3x32mm

Glass Fuses

Quick Blow/Fast acting
Time DelayCF06332F
CF06332T
CF06333CF
CF06333CTp103
p103
p103
p103

Ceramic Fuses

Quick Blow/Fast acting
Time Delay

POWER FUSES

8.5x31.5mm

aR Semiconductor
aM Motor Circuit Protection
gG General Use

10.3x38mm

aR Semiconductor
gG General Use
gGV Solar Photovoltaic

MINIATURE AXIAL FUSES

2.4x7mm Micro Fuses

SURFACE MOUNT FUSES

1206 Case Size

RADIAL (ROUND) FUSES

RADIAL (SQUARE) FUSES

PTC SELF-RESETTING FUSES

6V rated
16V rated
30V rated
60V rated
120V rated
130V rated
240V rated
250V rated

Very Fast Acting
Time Delay

Quick Blow/Fast acting
Time Delay
Quick Blow/Fast acting
Time Delay

Quick Blow/Fast acting
Time Delay

Quick Blow/Fast acting
Time Delay

CF0840aR p106
CF0840aM p106
CF0840gG p107

CF1050aR p106
CF1050gG p107
CF1010gPV p107

CF2470FF p109
CF2470TT p109

CFSSMTF p110
CFSSMTT p110
CF1206F p113
CF1206T p113

CFRT05F p114
CFRT05T p114

CFST05F p113
CFST05T p113

CFPLA p114
CFPL p114
CFPM p114
CFPN p114
CFPO p114
CFPNA p114
CFPPA p114
CFPP p114

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Ver 1.1

CAMDENBOSS
ELECTRONICS & ENCLOSURES

FUSES & FUSEHOLDERS

5x20mm Fused Terminal Blocks

- 1 - 5 pole terminal strip with 5x20mm fuseholder to IEC257
- Integral spare fuse carrier
- Interlocking fuseholder with CFTBN/1
- Anti rotation spigot
- IP20 finger protection
- Cable entry 4mm² (2.5mm² with wire protector)
- Wire protector on fuse terminal as standard
- Standard 3 to 5 pole with earth screw, without wire protectors
- Version 2 to 5WP without earth, with wire protector on all poles
- Version 3 to 5EWP with earth, wire protector on all poles except earth
- Version 3 to 5NE without earth, without wire protectors
- Wire protectors on earth pole to order
- Meets creepage and clearance requirements of IEC (8mm)
- 16mm fixing pitch
- Easily cut to size
-  FIMKO, approved, on non earth versions

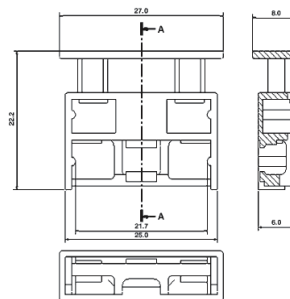
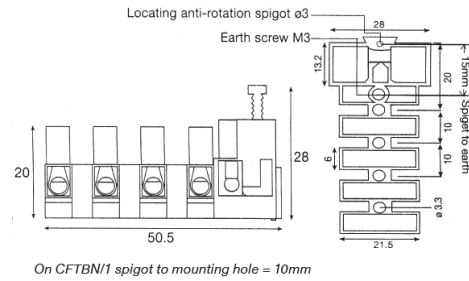
CFTBN



TYPE NO.	POLES
CFTBN/1	1 interlocking
CFTBN/2	2
CFTBN/3	3 with earth screw
CFTBN/4	4 with earth screw
CFTBN/5	5 with earth screw
CFTBN/3NE	3 no earth facility
CFTBN/4NE	4 no earth facility
CFTBN/5NE	5 no earth facility
CFTBN/2WP	2 with wire protector & no earth facility
CFTBN/3WP	3 with wire protector & no earth facility
CFTBN/4WP	4 with wire protector & no earth facility
CFTBN/5WP	5 with wire protector & no earth facility
CFTBN/3EWP	3 with wire protector & earth screw (no WP on earth connection)
CFTBN/4EWP	4 with wire protector & earth screw (no WP on earth connection)
CFTBN/5EWP	5 with wire protector & earth screw (no WP on earth connection)
CFTBN/3EWPG	3 with wire protection on all poles & earth screw
CFTBN/4EWPG	4 with wire protection on all poles & earth screw
CFTBN/5EWPG	5 with wire protection on all poles & earth screw

SPECIFICATION

Rating	Fuseholder 250V AC Terminal 450V AC
Current rating	Fuseholder 13A Terminal 20A
Moulding	UL94-V0 flame retardant PA
Terminal	Brass, nickel plated
Fuse clip	Phosphor bronze
Wire protector	Stainless steel
Temperature	-20° to 120°C
Fuse size	5x20mm glass or ceramic
Screws	M3



Terminal Cover

- Screw / dust protection
- Easily cut to required size



TYPE NO.	POLES
CFTBN/3C	3 pole cover
CFTBN/5C	5 pole cover

FUSES & FUSEHOLDERS

6.3x25mm (1/4"x1") Fused Terminal Blocks

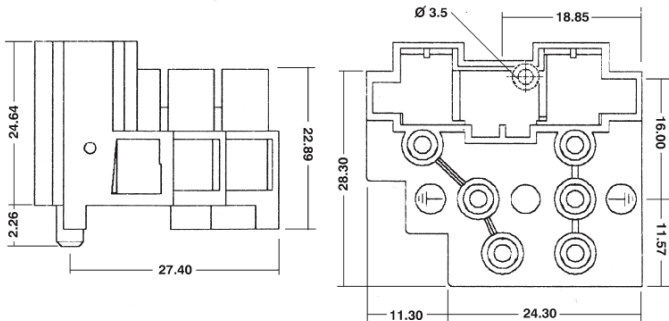
- 2 or 3 pole terminal block
- Accepts 5x20mm & 6.3x25mm (1"x1/4") fuses
- Anti rotation spigot
- IP20 finger protection
- Cable entry 3x1.5mm² or 2x2.5mm²
- Meets creepage and clearance requirements of IEC (8mm)
- 16mm fixing pitch
- 2 pole supplied in 3 pole housing
- 3 pole supplied complete with earth screw and washer
- CE approved

CMFTB



TYPE NO.	POLES
CMFTB/2	2
CMFTB/3	3

SPECIFICATION	
Rating	Fuseholder 250V AC Terminal 450V AC
Current rating	Fuseholder 13A Terminal 20A
Moulding	UL94-V0 flame retardant PA
Terminal	Brass, nickel plated
Fuse clip	Phosphor bronze
Temperature	-20° to 125°C
Fuse size	5 x 20mm & 6.3 x 25mm (1"x1/4") glass or ceramic
Screws	M3.6
Terminal marking	L=Live/ ⊕ =Earth/ N=Neutral



PCB Fuseholder for Axial/Radial Fuses

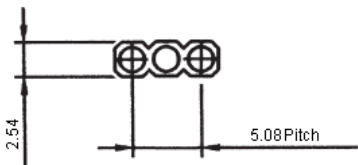
- Precision turned pins
- Twist free construction
- Low profile
- High retention design prevents fuse walkout during heavy vibrations
- Side and end stackable
- High solderability pin design
- Anti wicking pin design
- UL94-V0 mouldings
- 200 operations minimum life

CSICS



TYPE NO.	POLES
CSICS/3/101	2

SPECIFICATION	
Rating	3A
Contacts/Resistance	Tinned nickel plated Brass, <5mΩ
Temperature range	-55°C to 125°C
Contact	Beryllium copper, heat treated
Plating	2µm/80µ" nickel 5µm/200µ" tin
Insulation Resistance	10 ⁹ MΩ at 100V
Insertion force	<250g
Withdrawal force	>50g



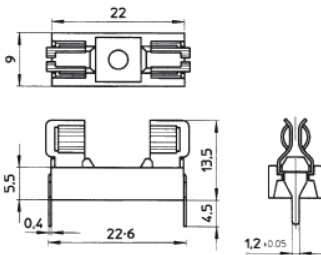
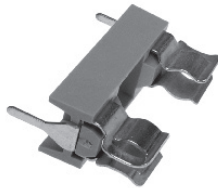
FUSES & FUSEHOLDERS

5x20mm PCB Fuse Carriers

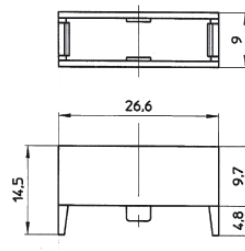
- PCB mounting
- Kinked pin for PCB retention CFH02/W
- Transparent insulation cover CFH02H
- UL94-V0 cover
- Standard according to EN60127 & UL512
- 22.6mm pitch
-     approved

TYPE NO.		SPECIFICATION
CFH02	Straight pin	Rating 6.3A/ 250V
CFH02/W	Kinked pin	Contacts/Resistance Tinned, nickel plated Brass
CFH02H	Cover	Moulding UL94-V1 self extinguishing PPOM
		Dielectric strength 3kV / 60 Sec
		Temperature -20° to 125°C
		Operating power 1.6W
		Recommended PCB hole size 1.3mm

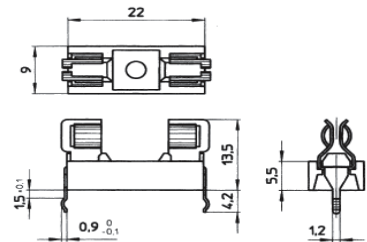
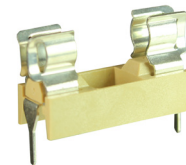
CFH02



CFH02H



CFH02/W



5x20mm Compact Horizontal & Vertical PCB Mounting Fuseholders

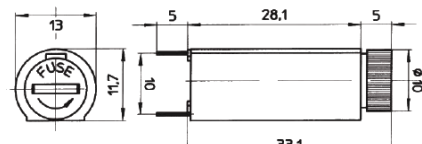
- Finger or screwdriver release, bayonet carrier
- Horizontal or vertical mounting
- Compact footprint 10mm pitch
- Anti solder wicking
- To EN60127 & UL512
-    approved

TYPE NO.		SPECIFICATION
CFH06	vertical mounting	Rating 10A/ 250V
CFH07	horizontal mounting	Contacts/Resistance Tinned nickel plated Brass, <5mΩ
		Moulding UL94-V0 flame retardant PBT
		Dielectric strength 3kV / 60"
		Power dissipation 2.5W
		Recommended PCB hole size 1.5mm
		Insulation Resistance 100MΩ

CFH06



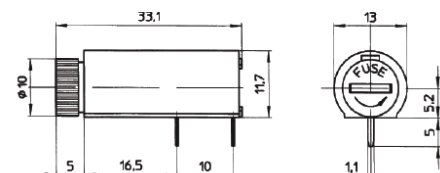
CFH06



CFH07



CFH07

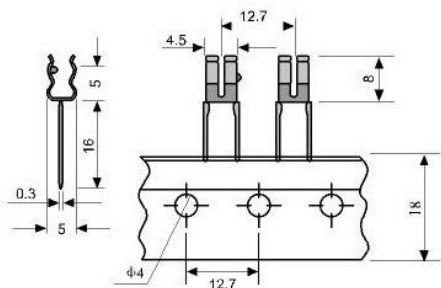
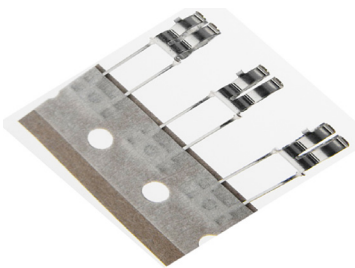


FUSES & FUSEHOLDERS

5x20mm PCB Fuse Carriers

- For the PCB mounting of 5x20mm fuses
- Supplied on tape, in ammo packs
- Pack size 1000 pcs

TYPE NO.		SPECIFICATION	
CFH01T	Fuse clip	Material	Phosphor bronze, tin plated



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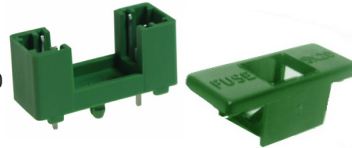
TRANS-
FORMERS

5x20mm Semi-enclosed PCB Mounting 15mm Pitch Fuseholders

- PCB mounting
- Fuse retaining insulation cover
- Enclosed contacts
- 15mm pitch
- Moulded in Green UL94-V0 retardant PA
- EN60127
-    approved

CFH17S

CFH14HG



TYPE NO.

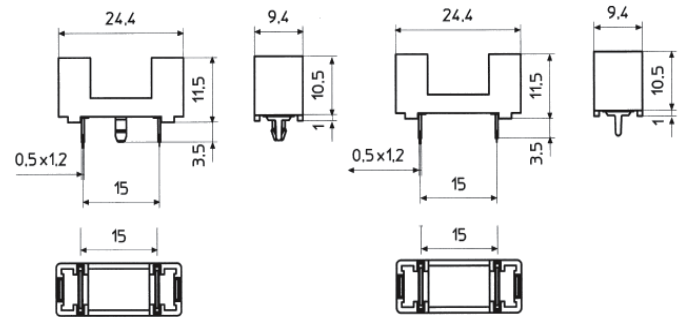
CFH17S	with spigot
CFH17	no spigot
CFH14HB	Cover (Black)
CFH14HG	Cover (Green)

SPECIFICATION

Rating	6.3A/ 250V
Contacts/Resistance	Tinned, nickel plated Brass, <5mΩ
Moulding	UL94-V0 flame retardant PA
Dielectric strength	3kV / 60"
Power dissipation	1.6W
Recommended PCB hole size	1.5mm
Insulation Resistance	100MΩ

CFH17S

CFH17



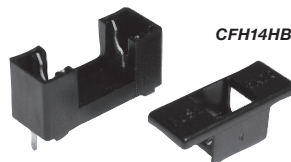
Recommended spigot hole 2.6mm

5x20mm Semi-enclosed PCB Mounting 22.6mm Pitch Fuseholders

- PCB mounting
- Fuse retaining insulation cover
- Enclosed contacts
- 22.6mm pitch
- Moulded in UL94-V0 retardant PA
- EN60127
-    approved

CFH14

CFH14HB



TYPE NO.

CFH14	no spigot
CFH14B	with spigot
CFH14HB	cover (Black)
CFH14HG	cover (Green)

SPECIFICATION

Rating	6.3A/ 250V
Contacts/Resistance	Tinned, nickel plated Brass, <5mΩ
Moulding	Black UL94-V0 flame retardant PA CFH14 Green UL94-V0 flame retardant PA CFH14S
Dielectric strength	3kV / 60"
Power dissipation	1.6W
Recommended PCB hole size	1.5mm
Insulation Resistance	100MΩ

CFH14

CFH14B

CFH14HB

CFH14HG



Recommended spigot hole 2.6mm

FUSES & FUSEHOLDERS

5x20mm Low Profile Panel Mounting Fuseholders

- Low profile panel mounting
- Moulded in UL94-V0 PBT
- Screw driver release
- Screw & bayonet carrier
- Solder, 2.8/4.0/4.8 quick connect terminals
- Anti-rotation D fixing
- EN60127
-  approved
- CFH18 UL, CSA approved

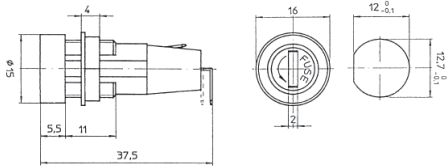
SPECIFICATION	
Rating	10A/ 250V
Contacts/Resistance	Tinned nickel plated Brass,<5mΩ
Moulding	UL94-V0 flame retardant PBT
Dielectric strength	3kV / 60"
Power dissipation	2.5W
Insulation Resistance	>100MΩ

TYPE NO.	CARRIER	TERMINAL
CFH04	Screw	Solder / 2.8mm quick connect
CFH09	Bayonet	Solder / 2.8mm quick connect
CFH12	Bayonet	Solder / 4.8mm quick connect
CFH18	Bayonet	Solder / 4mm quick connect

CFH04



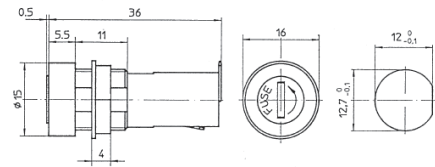
CFH04



CFH09



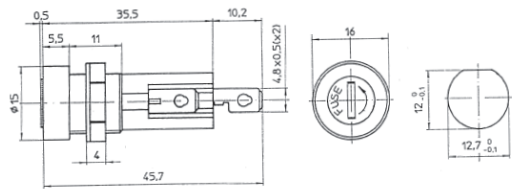
CFH09



CFH12



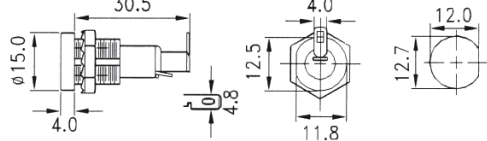
CFH12



CFH18



CFH18



FUSES & FUSEHOLDERS

5x20mm Panel Mounting Fuseholders

- Finger/screwdriver release, screw carrier
- Anti-rotation key fixing
- Combined solder/2.8mm quick connect terminals
- Compact
- EN60127
-   approved

CFH05

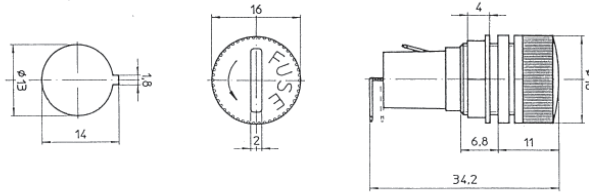


SPECIFICATION

Rating	A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V0 flame retardant PC
Dielectric strength	>3kV
Insulation Resistance	>100MΩ
Power dissipation	2.5W

TYPE NO.

CFH05 Panel mount fuseholder



5x20mm Snap Fit Panel Mounting Fuseholders

- Snap fit panel mounting
- Screwdriver or finger release screw fuse carrier
- Combined solder/2.8mm quick connect terminals
- Anti-rotation D fixing
- EN60127
- CFH08  ,  approved
- CFH11   approved

SPECIFICATION

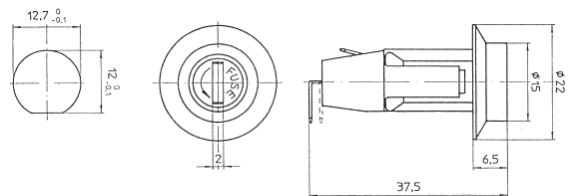
Rating	CFH08	6.3A/250V
	CFH11	10A/250V
Contacts	Tinned nickel plated Brass	
Moulding	CFH08	UL94-V0 flame retardant PBT
	CFH11	UL94-V0 flame retardant PC
Dielectric strength	CFH08	3kV
	CFH11	1.5kV
Insulation Resistance	>100MΩ	
Power dissipation	CFH08	2.5W

TYPE NO.	CARRIER	RELEASE
CFH08	Screw	Screw Driver
CFH11	Bayonet	Finger

CFH08



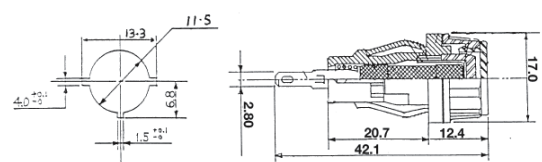
CFH08



CFH11



CFH11



FUSES & FUSEHOLDERS

6.3x32mm (1/4"x1 1/4") Low Profile Panel Mounting Fuseholder

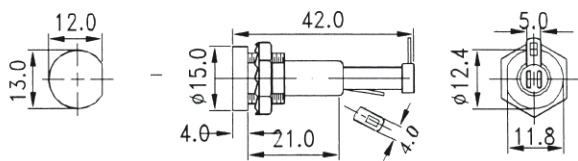
- Low profile panel mounting
- Screw driver release bayonet cap
- Combined solder/4.8mm quick connect terminals
- Anti-rotation fixing
-   approved

CFH20



SPECIFICATION	
Rating	15A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V0 flame retardant PC
Dielectric strength	1.5kV
Insulation Resistance	>100MΩ

TYPE NO.
CFH20 Low profile panel mounting fuseholder



6.3x32mm (1/4"x1 1/4") Snap Fit Low Profile Panel Mounting Fuseholder

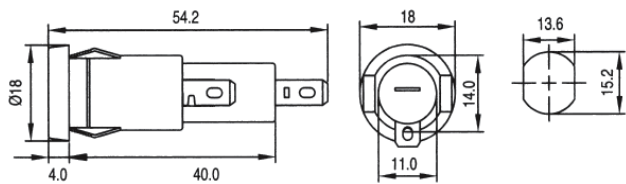
- Low profile snap fit panel mounting
- Screw driver release bayonet cap
- Combined solder/4.8mm quick connect terminals
- Anti-rotation fixing
-  approved

CFH19



SPECIFICATION	
Rating	10A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-V2 Nylon
Dielectric strength	1.5kV
Insulation Resistance	>100MΩ

TYPE NO.
CFH19 Low profile snap fit fuseholder



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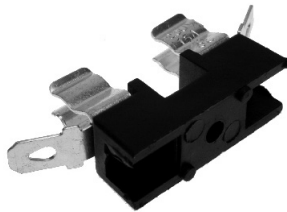
TRANS-
FORMERS

FUSES & FUSEHOLDERS

5x20mm Chassis Mounting 15A Fuseholder

- Centre hole fixing
- Anti-rotation spigots
- 5 x 20mm fuse
- High current rating
- **UL** approved

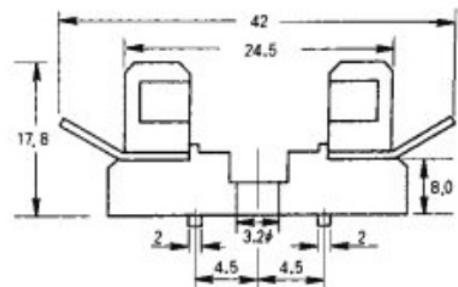
CFH15



TYPE NO.	FUSE SIZE
CFH15	chassis mounting 15A fuseholder

SPECIFICATION

Rating	15A/250V
Contacts	High tensile phosphor Bronze, 500MΩ
Moulding	Flame retardant PTB



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FUSES & FUSEHOLDERS

6.3x32mm (1/4"x1 1/4") Chassis Mounting Fuseholder

- Centre hole fixing
- 6.3 x 32mm fuse
- High current rating
- CE approved

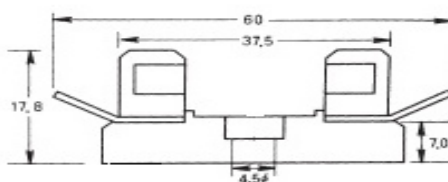
CFH16



SPECIFICATION

Rating	30A/300V
Contacts/Resistance	Brass tin nickel plated, 500MΩ
Moulding	UL94-V0 Flame retardant, Phenolic thermosetting resin

TYPE NO.	FUSE SIZE
CFH16	chassis mounting 15A fuseholder



Multi-size Inline Fuseholder

- Inline type fuseholder
- Accepts 5 x 20mm, 6.3 x 32mm (1/4" x 1/4") and 6.3 x 25mm (1/4" x 1") fuses
- Allows own choice of wire
- Bayonet type cover
- CE approved

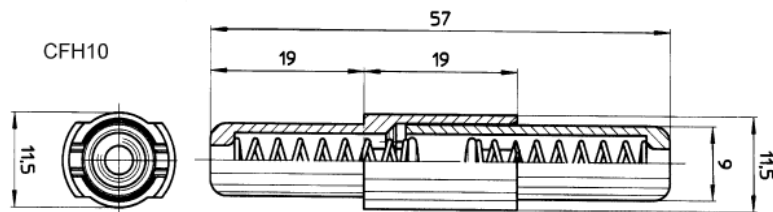
CFH10



SPECIFICATION

Rating	6.3A/250V
Contacts	Tinned nickel plated Brass
Moulding	UL94-HB PA6
Dielectric strength	1.5kV
Operating power	1.6W
Insulation Resistance	>100MΩ

TYPE NO.	FUSE SIZE
CFH10-	6.3 x 32mm
	6.3 x 25mm
	5 x 20mm



FUSES & FUSEHOLDERS

5x20mm Glass and Ceramic Fuses

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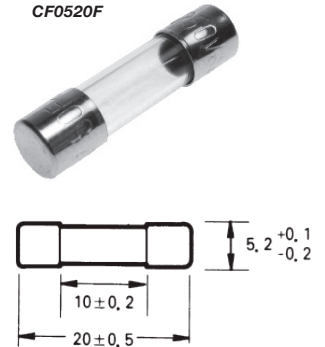
5x20mm Quick Blow Glass Fuses

TYPE NO.	RATING
CF0520F/100	100mA
CF0520F/125	125mA
CF0520F/160	160mA
CF0520F/200	200mA
CF0520F/250	250mA
CF0520F/315	315mA
CF0520F/400	400mA
CF0520F/500	500mA
CF0520F/630	630mA
CF0520F/800	800mA
CF0520F/1	1A
CF0520F/1.25	1.25A

TYPE NO.	RATING
CF0520F/1.6	1.6A
CF0520F/2	2A
CF0520F/2.5	2.5A
CF0520F/3	3A
CF0520F/3.15	3.15A
CF0520F/4	4A
CF0520F/5	5A
CF0520F/6.3	6.3A
CF0520F/8	8A
CF0520F/10	10A
CF0520F/12.5	12.5A
CF0520F/15	15A
CF0520F/16	16A
CF0520F/20	20A

- Quick blow (F) IEC60127-2/2
- Glass cartridge, nickel plated end caps
- Break capacity 35A/250V or 10 x In whichever is greater at above 3.5A
- Colour coded available
-     approved (200mA to 6.3A)

CF0520F



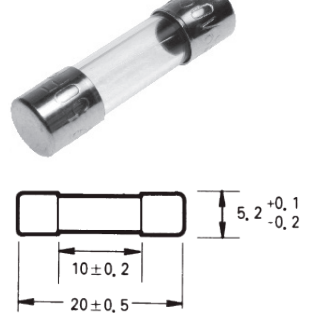
5x20mm Time Delay Glass Fuses

TYPE NO.	RATING
CF0520T/100	100mA
CF0520T/125	125mA
CF0520T/160	160mA
CF0520T/200	200mA
CF0520T/250	250mA
CF0520T/315	315mA
CF0520T/400	400mA
CF0520T/500	500mA
CF0520T/630	630mA
CF0520T/800	800mA

TYPE NO.	RATING
CF0520T/1	1A
CF0520T/1.25	1.25A
CF0520T/1.6	1.6A
CF0520T/2	2A
CF0520T/2.5	2.5A
CF0520T/3.15	3.15A
CF0520T/4	4A
CF0520T/5	5A
CF0520T/6.3	6.3A
CF0520T/8	8A
CF0520T/10	10A
CF0520T/12.5	12.5A

- Time delay (T) IEC60127-2/3
- Glass cartridge, nickel plated end caps
- Break capacity 35A/250V or 10 x In whichever is greater at above 3.5A
- Colour coded available
- Spiral element or plated solder section for superior characteristics
-    and BSI approved (200mA to 6.3A)

CF0520T



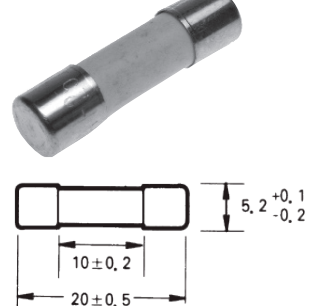
5x20mm Quick Blow Ceramic Fuses

TYPE NO.	RATING
CF0521CF/100	100mA
CF0521CF/125	125mA
CF0521CF/160	160mA
CF0521CF/200	200mA
CF0521CF/250	250mA
CF0521CF/315	315mA
CF0521CF/400	400mA
CF0521CF/500	500mA
CF0521CF/630	630mA
CF0521CF/800	800mA
CF0521CF/1	1A

TYPE NO.	RATING
CF0521CF/1.25	1.25A
CF0521CF/1.6	1.6A
CF0521CF/2	2A
CF0521CF/2.5	2.5A
CF0521CF/3.15	3.15A
CF0521CF/4	4A
CF0521CF/5	5A
CF0521CF/6.3	6.3A
CF0521CF/7.5	7.5A
CF0521CF/8	8A
CF0521CF/10	10A
CF0521CF/12.5	12.5A

- Quick blow (F) IEC60127-2/1
- Ceramic cartridge, nickel plated brass end caps
- High break capacity 1500A/250V
- Sand filled
-    and BSI approved (250mA-10A)

CF0521CF



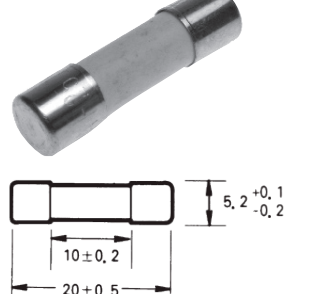
5x20mm Time Delay Ceramic Fuses

TYPE NO.	RATING
CF0521CT/125	125mA
CF0521CT/160	160mA
CF0521CT/200	200mA
CF0521CT/250	250mA
CF0521CT/315	315mA
CF0521CT/400	400mA
CF0521CT/500	500mA
CF0521CT/630	630mA
CF0521CT/800	800mA
CF0521CT/1	1A

TYPE NO.	RATING
CF0521CT/1.25	1.25A
CF0521CT/1.6	1.6A
CF0521CT/2	2A
CF0521CT/2.5	2.5A
CF0521CT/3.15	3.15A
CF0521CT/4	4A
CF0521CT/5	5A
CF0521CT/6.3	6.3A
CF0521CT/7.5	7.5A
CF0521CT/8	8A
CF0521CT/10	10A
CF0521CT/12.5	12.5A

- Time delay (T) IEC60127-2/5
- Ceramic cartridge, nickel plated brass end caps
- High break capacity 1500A/250V
-  200mA- 15A   BSI 1A-6.3A
- Sand filled

CF0521CT



FUSES & FUSEHOLDERS

6.3x25mm (1/4"x1") Glass & British Plug Top Fuses

6.3x25mm Quick Blow Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06325FG/250	250mA	CF06325FG/3	3A
CF06325FG/500	500mA	CF06325FG/5	5A
CF06325FG/800	800mA	CF06325FG/7	7A
CF06325FG/1	1A	CF06325FG/10	10A
CF06325FG/2	2A	CF06325FG/13	13A

- Quick blow (F)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (250mA to 1A), 100A/250V (1A to 3A), 200A/250V (3A to 13A)
- To IEC 127



6.3x25mm Time Delay Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06325TG/250	250mA	CF06325TG/3	3A
CF06325TG/500	500mA	CF06325TG/5	5A
CF06325TG/800	800mA	CF06325TG/7	7A
CF06325TG/1	1A	CF06325TG/10	10A
CF06325TG/2	2A	CF06325TG/13	13A

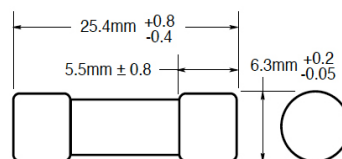
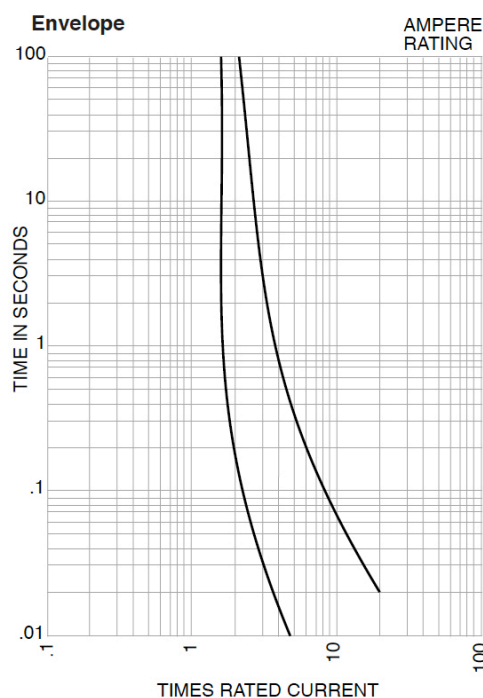
- Time delay (T)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (250mA to 1A), 100A/250V (1A to 3A), 200A/250V (3A to 13A)
- To IEC 127



6.3x25mm British Plug Top Fuses

TYPE NO.	RATING
CFA1362/3A	3A
CFA1362/5A	5A
CFA1362/10A	10A
CFA1362/13A	13A

- Power dissipation max 1 Watt
- Ceramic tube, silver - plated copper end caps
- Break capacity, 6000A, 264VAC, 50Hz, p.f. 0.3 - 0.4
- BS1362, IEC 269 -3A



LIMITS FOR PRE-ARCING TIME

	1.0 In.	1.6 In.	1.9 In.
In	MIN	MIN	MAX
1A - 13 A	1000 hrs	30 min.	30 min.

FUSES & FUSEHOLDERS

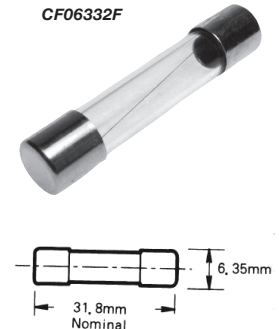
6.3x32mm (1/4"x1 1/4") Glass and Ceramic Fuses

6.3x32mm Quick Blow Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06332F/100	100mA	CF06332F/2.5	2.5A
CF06332F/125	125mA	CF06332F/3	3A
CF06332F/160	160mA	CF06332F/3.15	3.15A
CF06332F/200	200mA	CF06332F/4	4A
CF06332F/250	250mA	CF06332F/5	5A
CF06332F/500	500mA	CF06332F/6.3	6.3A
CF06332F/750	750mA	CF06332F/7	7A
CF06332F/1	1A	CF06332F/7.5	7.5A
CF06332F/1.25	1.25A	CF06332F/8	8A
CF06332F/1.5	1.5A	CF06332F/10	10A
CF06332F/2	2A	CF06332F/15	15A

- Quick blow (F)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (to 1A), 100A/250V (to 3.5A), 200A/250V (above 3.5A)
- To IEC 127

CF06332F

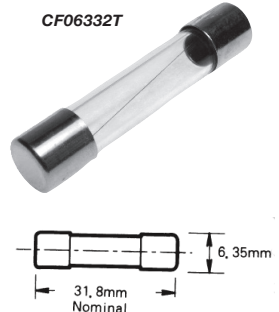


6.3x32mm Time Delay Glass Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06332T/100	100mA	CF06332T/2.5	2.5A
CF06332T/125	125mA	CF06332T/3	3A
CF06332T/160	160mA	CF06332T/3.15	3.15A
CF06332T/200	200mA	CF06332T/4	4A
CF06332T/250	250mA	CF06332T/5	5A
CF06332T/500	500mA	CF06332T/6	6A
CF06332T/750	750mA	CF06332T/6.3	6.3A
CF06332T/1	1A	CF06332T/7	7A
CF06332T/1.25	1.25A	CF06332T/7.5	7.5A
CF06332T/1.5	1.5A	CF06332T/8	8A
CF06332T/2	2A	CF06332T/10	10A
		CF06332T/15	15A

- Time delay (T)
- Glass cartridge, nickel plated end caps
- Break capacity, 35A/250V (to 1A), 100A/250V (to 3.5A), 200A/250V (above 3.5A)
- To IEC 127

CF06332T



6.3x32mm Quick Blow Ceramic Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06333CF/100	100mA	CF06333CF/3.15	3.15A
CF06333CF/250	200mA	CF06333CF/4	4A
CF06333CF/500	500mA	CF06333CF/5	5A
CF06333CF/750	750mA	CF06333CF/6	6A
CF06333CF/1	1A	CF06333CF/6.3	6.3A
CF06333CF/1.25	1.25A	CF06333CF/7.5	7.5A
CF06333CF/1.5	1.5A	CF06333CF/8	8A
CF06333CF/2	2A	CF06333CF/10	10A
CF06333CF/2.5	2.5A	CF06333CF/12	12A
		CF06333CF/15	15A
		CF06333CF/20	20A
		CF06333CF/25	25A

- Quick blow (F)
- Ceramic cartridge, nickel plated end caps
- Break capacity 1000A
- Sand filled
- cULus (500mA-15A)

CF06333CF

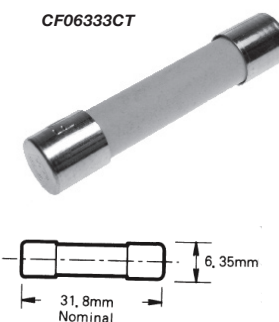


6.3x32mm Time Delay Ceramic Fuses

TYPE NO.	RATING	TYPE NO.	RATING
CF06333CT/100	100mA	CF06333CT/2.5	2.5A
CF06333CT/125	125mA	CF06333CT/3.15	3.15A
CF06333CT/160	160mA	CF06333CT/4	4A
CF06333CT/200	200mA	CF06333CT/5	5A
CF06333CT/250	250mA	CF06333CT/6	6A
CF06333CT/315	315mA	CF06333CT/6.3	6.3A
CF06333CT/400	400mA	CF06333CT/7	7A
CF06333CT/500	500mA	CF06333CT/7.5	7.5A
CF06333CT/750	750mA	CF06333CT/8	8A
CF06333CT/1	1A	CF06333CT/10	10A
CF06333CT/1.25	1.25A	CF06333CT/12	12A
CF06333CT/1.5	1.5A	CF06333CT/12.5	12.5A
CF06333CT/2	2A	CF06333CT/15	15A
		CF06333CT/20	20A
		CF06333CT/25	25A

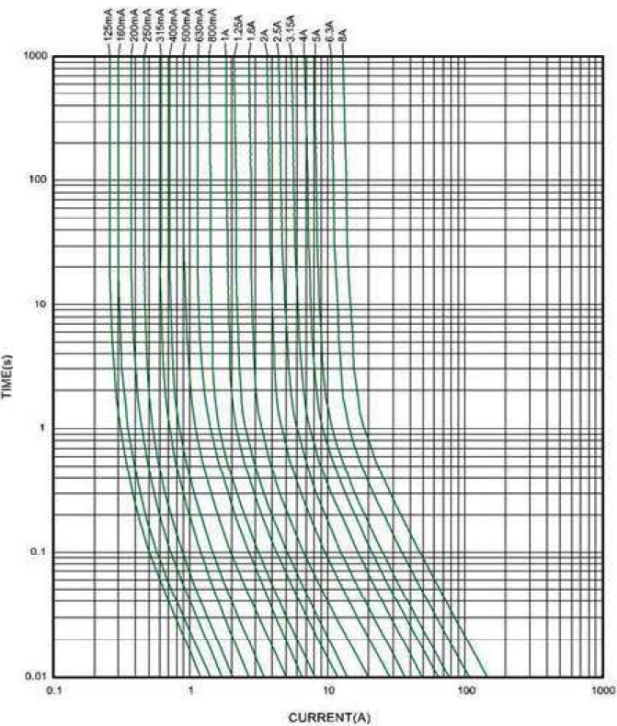
- Time delay (T)
- Ceramic cartridge, nickel plated end caps
- Break capacity 1000A
- Sand filled
- cULus (500mA-15A)

CF06333CT

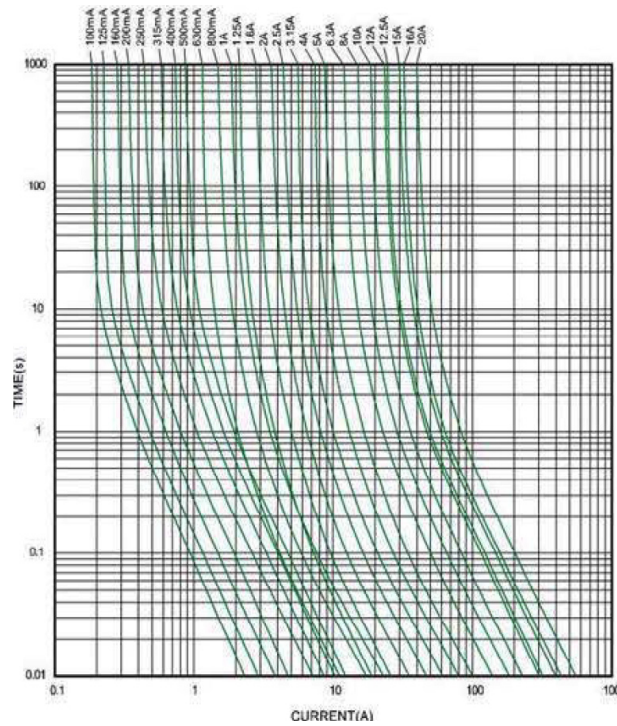


FUSES & FUSEHOLDERS

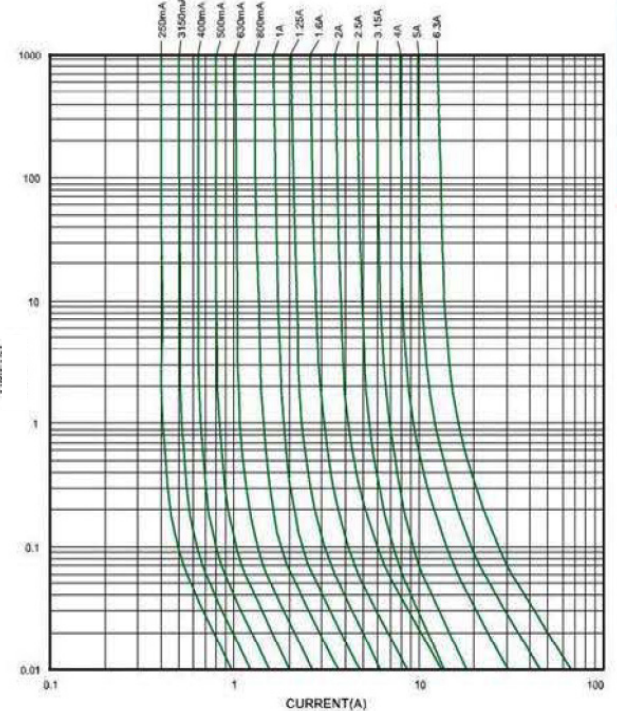
CF0520F



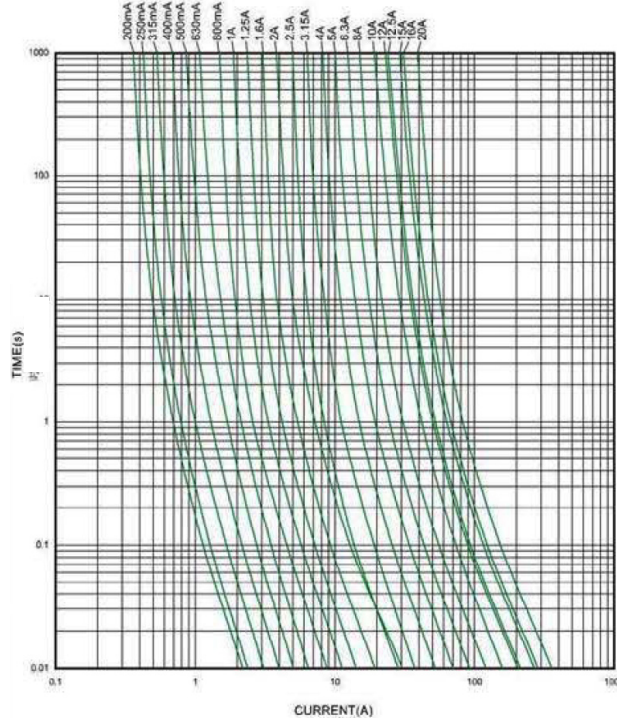
CF0520T



CF0521CF



CF0521CT



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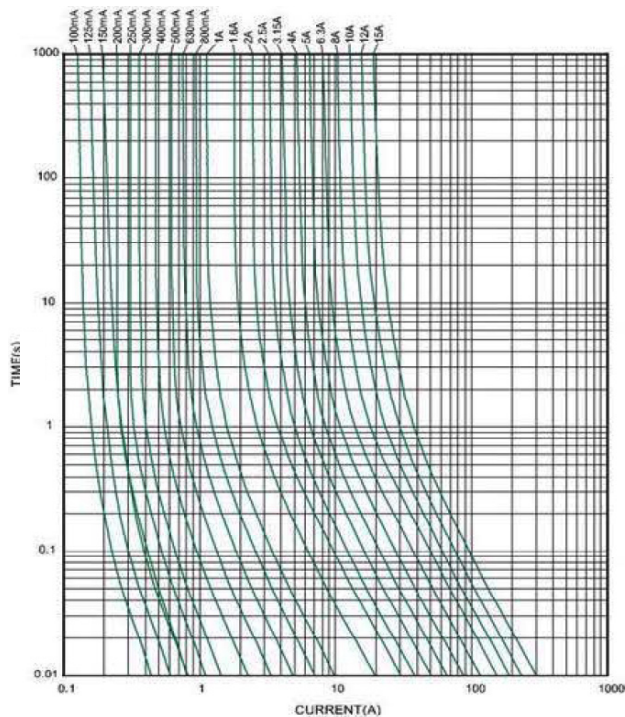
RELAY
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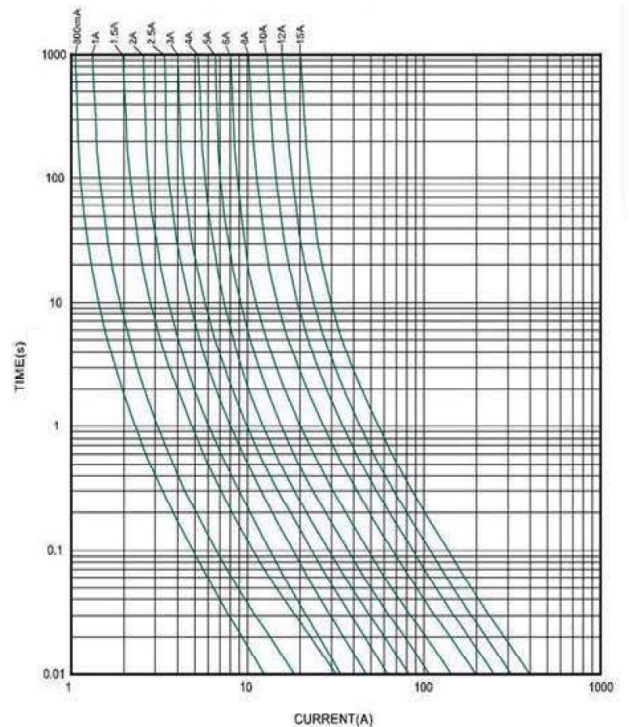
BATTERIES

TRANS-
FORMERS

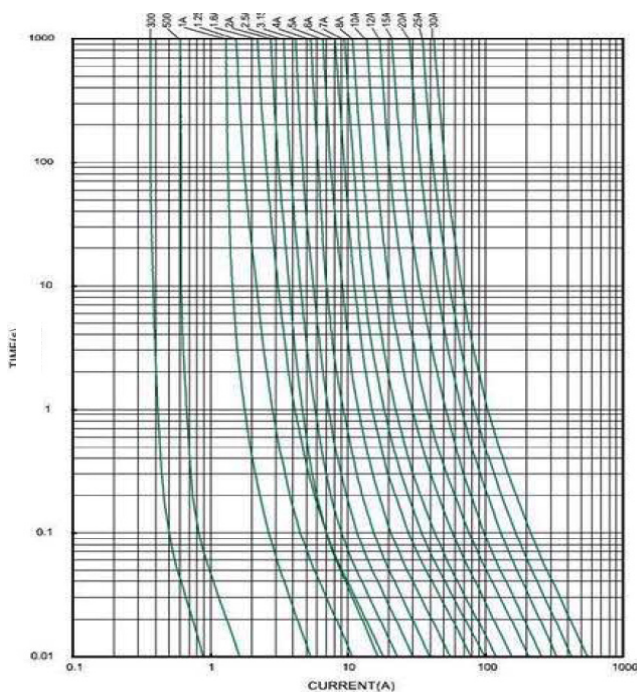
CF06332F



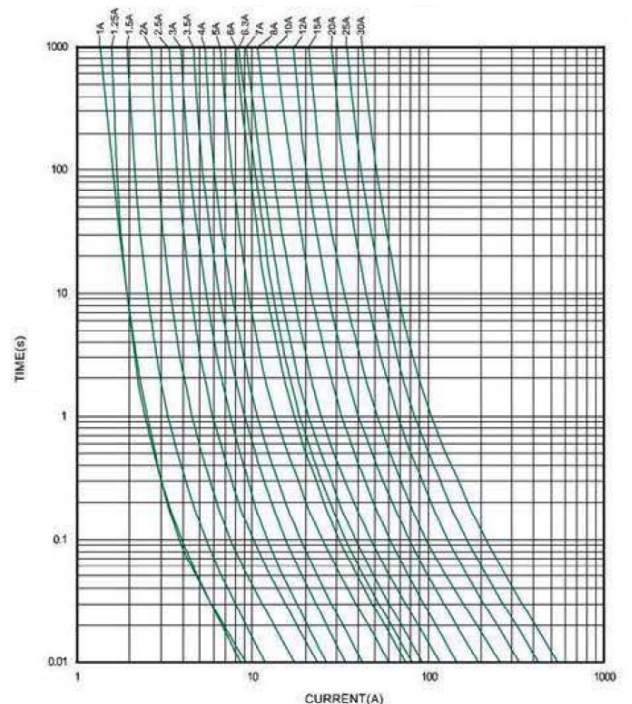
CF06332T



CF06333CF



CF06333CT



FUSES & FUSEHOLDERS

8.5 x 31.5mm & 10.3x38mm aR Semiconductor Power Fuses

- Fast aR type for semiconductor protection
- Current limiting, super fast blow
- To IEC 60269-4
- CF08aR 400V rating
- CF10aR 500V standard rating, 690V and 1000V available
-  250mA-32A all voltage
-  250mA-32A 500V



SPECIFICATION

Rating	CF08aR	400V	500mA-25A
	CF10aR	500V	250mA-15A
Breaking capacity	CF08aR	20kA	
	CF10aR	120kA	
Blow time @ I_N			min 4 hours
Blow time @ $4xI_N$	250mA-5A		3ms-1s
	6A-32A		10ms-10s
Blow time @ $10xI_N$	250mA-5A		max 20ms
	6A-32A		max 30ms

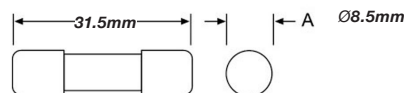
8.5x31.5 mm 400 V

TYPE NO.	RATING
CF0840aR/500	500mA
CF0840aR/630	630mA
CF0840aR/800	800mA
CF0840aR/1	1A
CF0840aR/1.25	1.25A
CF0840aR/2	2A
CF0840aR/2.5	2.5A
CF0840aR/3	3A
CF0840aR/3.5	3.5A
CF0840aR/4	4A
CF0840aR/5	5A
CF0840aR/6	6A
CF0840aR/6.3	6.3A
CF0840aR/7	7A
CF0840aR/8	8A
CF0840aR/9	9A
CF0840aR/10	10A
CF0840aR/12	12A
CF0840aR/12.5	12.5A
CF0840aR/15	15A
CF0840aR/16	16A
CF0840aR/20	20A
CF0840aR/25	25A

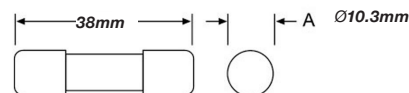
10.3x38mm 500V

TYPE NO.	RATING
CF1050aR/250	250mA
CF1050aR/315	315mA
CF1050aR/400	400mA
CF1050aR/500	500mA
CF1050aR/630	630mA
CF1050aR/800	800mA
CF1050aR/1	1A
CF1050aR/1.25	1.25A
CF1050aR/1.6	1.6A
CF1050aR/2	2A
CF1050aR/2.5	2.5A
CF1050aR/3	3A
CF1050aR/3.15	3.15A
CF1050aR/4	4A
CF1050aR/5	5A
CF1050aR/6	6A
CF1050aR/6.3	6.3A
CF1050aR/7	7A
CF1050aR/8	8A
CF1050aR/9	9A
CF1050aR/10	10A
CF1050aR/12	12A
CF1050aR/12.5	12.5A
CF1050aR/15	15A
CF1050aR/16	16A
CF1050aR/20	20A
CF1050aR/30	30A

400V



500V



8.5x31.5mm aM Motor Circuit Protection Power Fuses

- Fast aM type typically for motor circuit protection
- aM fast acting short circuit protection, slow acting overload protection
- To IEC 60269
- 400V rating



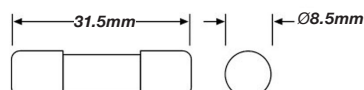
SPECIFICATION

Rating	CF0840	400V	1 - 10A
Breaking capacity	CF0840	20kA	

TYPE NO. RATING

CF0840aM/1	1A
CF0840aM/2	2A
CF0840aM/4	4A
CF0840aM/6	6A
CF0840aM/8	8A
CF0840aM/10	10A

400V



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FUSES & FUSEHOLDERS

8.5x31.5mm & 10.3x38mm gG General Power Fuses

- Full gG range type typically for conductor protection
- Line protection, slow blow typically used for power distribution or reuse loads
- To IEC 60269
- CF08gG series 400V rating
- CF10gG Series 500V rating (32A 400V)



SPECIFICATION

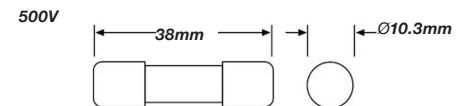
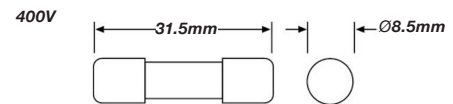
Rating	CF08gG	400V	500mA - 25A
	CF10gG	500V	500mA - 25A (32A 400V)
Breaking capacity	CF08gG	20kA	
	CF10gG	120kA	

8.5x31.5mm 400V

TYPE NO.	RATING
CF0840gG/500	500mA
CF0840gG/1	1A
CF0840gG/2	2A
CF0840gG/4	4A
CF0840gG/6	6A
CF0840gG/8	8A
CF0840gG/10	10A
CF0840gG/12	12A
CF0840gG/20	20A
CF0840gG/25	25A

10.3x38mm 500V

TYPE NO.	RATING
CF1050gG/500	500mA
CF1050gG/1	1A
CF1050gG/2	2A
CF1050gG/4	4A
CF1050gG/6	6A
CF1050gG/8	8A
CF1050gG/10	10A
CF1050gG/12	12A
CF1050gG/20	20A
CF1050gG/25	25A
CF1050gG/32	32A



10.3x38mm gPV Solar Photovoltaic Power Fuses

- Fast gPV type for the protection of photovoltaic modules and their conductors
- Current limiting, super fast blow
- To IEC 60269
- 1000V rated
- UL & TUV approvals pending

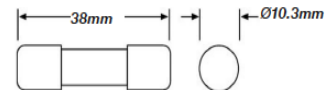


SPECIFICATION

Rating	CF10gPV	1000V	1A - 20A
Breaking Capacity	CF10gPV	2kA AT 1000VDC	

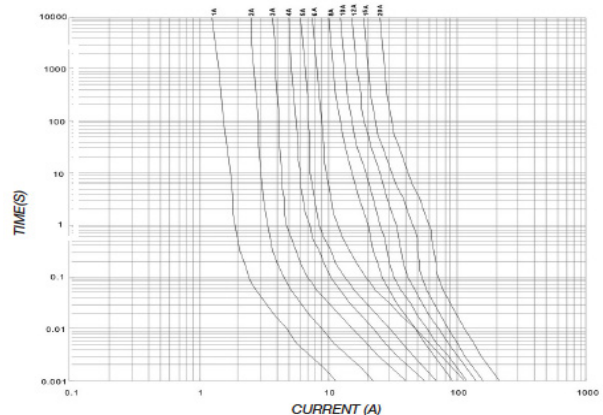
Blow time @ $I_n = 113\%$ of IR 1 hour min

Blow time @ $I_n = 145\%$ of IR 1 hour max



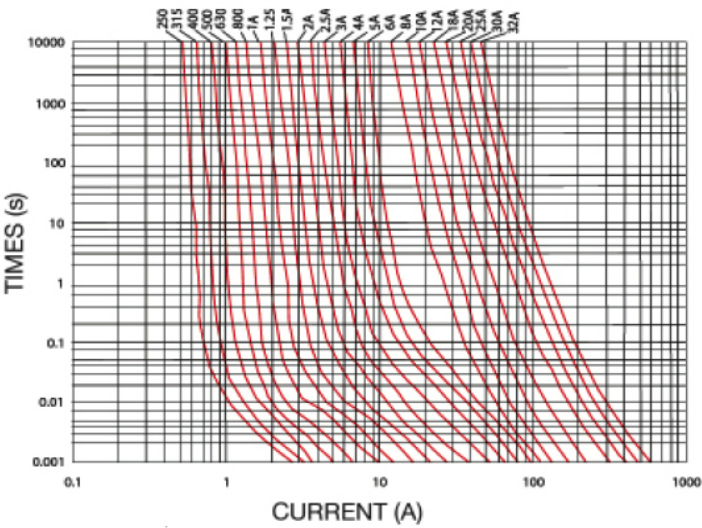
CF1010gPV

TYPE NO.	RATING
CF1010gPV/1	1A
CF1010gPV/2	2A
CF1010gPV/3	3A
CF1010gPV/4	4A
CF1010gPV/5	5A
CF1010gPV/6	6A
CF1010gPV/8	8A
CF1010gPV/10	10A
CF1010gPV/12	12A
CF1010gPV/15	15A
CF1010gPV/20	20A

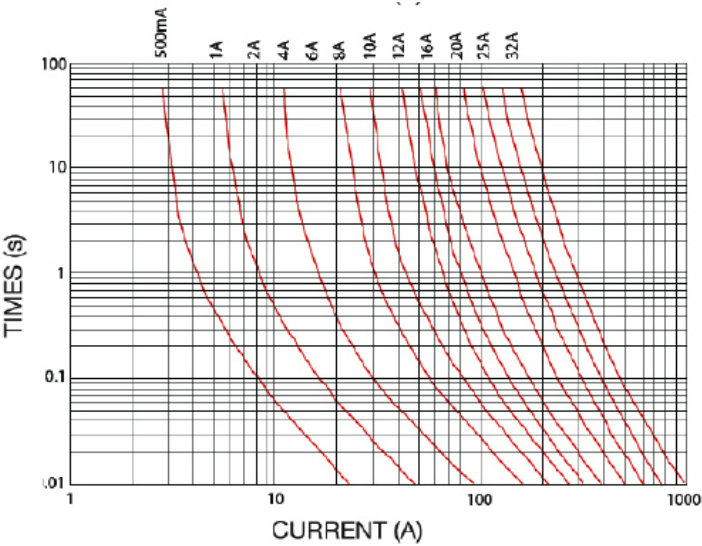


FUSES & FUSEHOLDERS

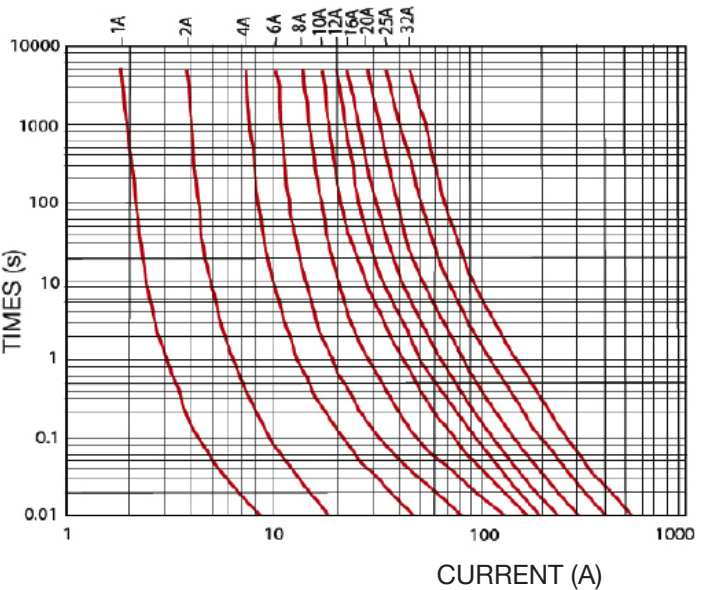
Powerfuse aR



Powerfuse aM



Powerfuse gG



PCB
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BATTERIES

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FORMERS

FUSES & FUSEHOLDERS

2.4x7mm Micro Miniature Very Fast Acting Axial Fuses

- Very fast acting
-  (375mA -10A)
-  (100mA-10A) approved
- Bandaliered

CF2470FF

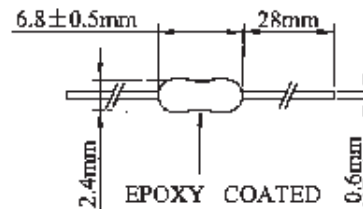


TYPE NO.	RATING
CF2470FF/375	375mA
CF2470FF/400	400mA
CF2470FF/500	500mA
CF2470FF/600	600mA
CF2470FF/630	630mA
CF2470FF/700	700mA
CF2470FF/750	750mA
CF2470FF/800	800mA
CF2470FF/1	1A
CF2470FF/2	2A
CF2470FF/1.2	1.2A
CF2470FF/1.25	1.25A
CF2470FF/1.5	1.5A
CF2470FF/1.6	1.6A
CF2470FF/2.25	2.25A
CF2470FF/2.5	2.5A
CF2470FF/3	3A
CF2470FF/3.15	3.15A

TYPE NO.	RATING
CF2470FF/3.5	3.5A
CF2470FF/4	4A
CF2470FF/5	5A
CF2470FF/6	6A
CF2470FF/6.3	6.3A
CF2470FF/7	7A

SPECIFICATION

Materials	Epoxy coated body
Interrupt current	30Amp@250Vac
Operating temperature	-55°C to 125°C
Soldering conditions	260°C for 10 sec max
Solder leads	Tin plated copper
Electrical characteristics	100% 4 hours min blowing
	200% 20 sec max blowing



2.4x7mm Micro Miniature Slow Blow / Time Delay Axial Fuses

- Slow blow / Time delay
-  (375mA- 7A)
-  (100mA-15A) approved
- Bandaliered

CF2470TT

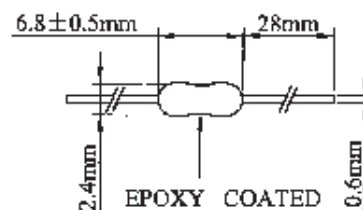


TYPE NO.	RATING
CF2470TT/375	375mA
CF2470TT/400	400mA
CF2470TT/500	500mA
CF2470TT/600	600mA
CF2470TT/630	630mA
CF2470TT/750	750mA
CF2470TT/800	800mA
CF2470TT/1	1A
CF2470TT/1.2	1.2A
CF2470TT/1.25	1.25A
CF2470TT/1.5	1.5A
CF2470TT/1.6	1.6A
CF2470TT/2	2A
CF2470TT/2.5	2.5A
CF2470TT/3	3A
CF2470TT/3.15	3.15A

TYPE NO.	RATING
CF2470TT/3.5	3.5A
CF2470TT/4	4A
CF2470TT/5	5A
CF2470TT/6	6A
CF2470TT/6.3	6.3A
CF2470TT/7	7A

SPECIFICATION

Materials	Epoxy coated body
Interrupt current	30Amp@250Vac
Operating temperature	-55°C to 125°C
Soldering conditions	260°C for 10 sec max
Solder leads	Tin plated copper
Electrical characteristics	100% 4 hours min blowing
	200% 1 sec min, 60 sec max
	300% 0.2 sec min, 3 sec max
	800% 0.02 sec min, 0.1 sec max



FUSES & FUSEHOLDERS

Surface Mount Fuses

- Square Ceramic SMT Fuse
- Silver plated brass cap termination
- Quick Blow & time delay
- 125V Rating
- Supplied taped on 7" or 13" reel
-  &  approved

CFSSMT



SPECIFICATION

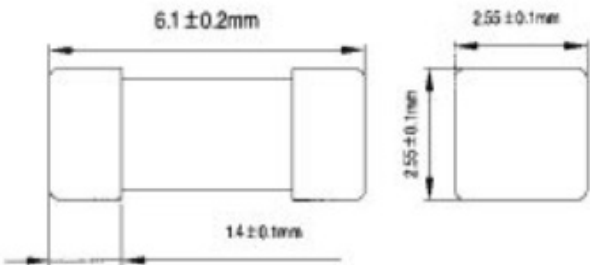
Rating	Quick Blow	125V 63mA-5A
	Time Delay	125V 200mA-5A
Interrupt current		50A or 10x I _n @ 125V
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	1 hours min @ 1.25 I _n 120 secs max @ 2 I _n 1 msec min @ 10 I _n 10 msec max @ 10 I _n
	Time Delay	4 hours min @ 1.5 I _n 1 sec min @ 2 I _n 120 secs max @ 2 I _n 10 msec min @ 10 I _n 100 msec max @ 10 I _n

Quick Blow

TYPE NO.	RATING	I ² t
CFSSMTF/63	63mA	0.0012
CFSSMTF/80	80mA	0.0021
CFSSMTF/100	100mA	0.0032
CFSSMTF/125	125mA	0.0048
CFSSMTF/160	160mA	0.0079
CFSSMTF/200	200mA	0.0131
CFSSMTF/250	250mA	0.0192
CFSSMTF/315	315mA	0.0301
CFSSMTF/400	400mA	0.0472
CFSSMTF/500	500mA	0.0768
CFSSMTF/630	630mA	0.1204
CFSSMTF/800	800mA	0.1886
CFSSMTF/1	1A	0.3000
CFSSMTF/1.25	1.25A	0.4050
CFSSMTF/1.6	1.6A	0.5025
CFSSMTF/2	2A	1.2510
CFSSMTF/2.5	2.5A	1.8520
CFSSMTF/3.15	3.15A	3.6075
CFSSMTF/4	4A	4.6400
CFSSMTF/5	5A	6.6500

Time Delay

TYPE NO.	RATING	I ² t
CFSSMTT/200	200mA	0.0865
CFSSMTT/250	250mA	0.1320
CFSSMTT/315	315mA	0.2085
CFSSMTT/400	400mA	0.3310
CFSSMTT/500	500mA	0.5122
CFSSMTT/630	630mA	0.8055
CFSSMTT/800	800mA	1.3044
CFSSMTT/1	1A	1.9090
CFSSMTT/1.25	1.25A	2.8102
CFSSMTT/1.6	1.6A	4.5385
CFSSMTT/2	2A	8.8570
CFSSMTT/2.5	2.5A	16.550
CFSSMTT/3.15	3.15A	32.210
CFSSMTT/4	4A	40.800
CFSSMTT/5	5A	65.000



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ENCLOSURES

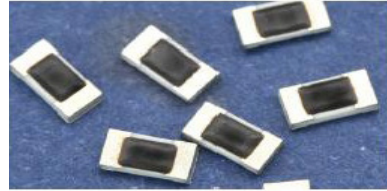
BATTERIES

TRANS-
FORMERS

FUSES & FUSEHOLDERS

SURFACE MOUNT FUSES - 1206 case size

- Thin film structure design with ceramic body, copper and tin alloy element
- Wide range of current ratings from 0.2A to 7A. Voltag up to 63V DC (32V AC)
- Multi-layer construction for stable fusing characteristics
- Suitable for lead-free reflow and wave soldering process
- 100% RoHS and REACH compliant
- Operating temperature range -55 °C + 125 °C

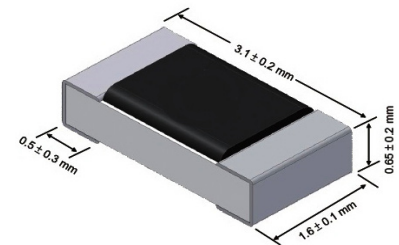


SPECIFICATIONS

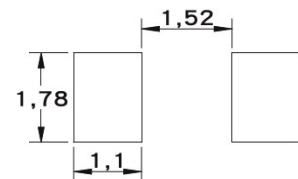
Construction Body Material	Ceramic		
Termination Material	Copper(Cu), Nickel(Ni), Tin(Sn)		
Fuse Element	Copper(Cu), Tin(Sn)		
Interrupting Rating	50A at 32VAC 50A at 63VDC		
Soldering Method			
• Reflow Soldering	260 °C, 30 Sec. max.		
• Wave Soldering	260 °C, 10 sec. max.		
• Hand Soldering	350 °C, 3 sec. max.		
Rated Current	1In	2In	3In
	MIN	MAX	MAX
Fast Blow	0.2A - 7A		
Time Delay	0.2A - 7A		
	4hr	5 sec	0.2 sec
	4hr	120 sec	3 sec

QUICK BLOW

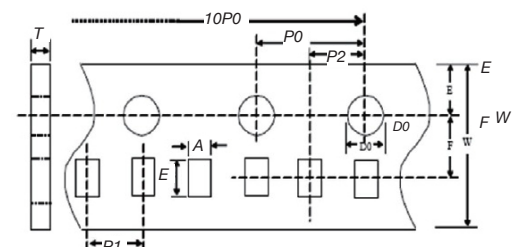
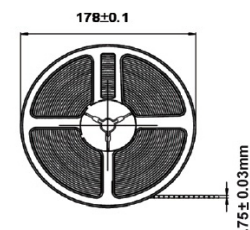
TYPE NO.	MARKING	AMPERE RATING(In)	VOLTAGE RATING(V)	NOMINAL R COLD OHMS	NOMINAL MELTING I ² t A ² SEC
CF1206F/200	C	200mA	63V	2.400	0.002
CF1206F/500	F	500mA		0.500	0.022
CF1206F/750	G	750mA		0.220	0.032
CF1206F/001	H	1A		0.155	0.052
CF1206F/1.25	J	1.25A		0.090	0.072
CF1206F/1.50	K	1.5A		0.059	0.100
CF1206F/002	N	2A		0.034	0.210
CF1206F/2.50	O	2.5A		0.028	0.320
CF1206F/003	P	3A		0.020	0.405
CF1206F/004	S	4A		0.014	0.745
CF1206F/005	T	5A		0.010	1.350
CF1206F/007	U	7A		0.007	2.870



Recommended Land Pattern



Reflow Solder



TIME DELAY

TYPE NO.	MARKING	AMPERE RATING(In)	VOLTAGE RATING(V)	NOMINAL R COLD OHMS	NOMINAL MELTING I ² t A ² SEC
CF1206T/200	C	200mA	63V	2.100	0.004
CF1206T/500	F	500mA		0.420	0.023
CF1206T/750	G	750mA		0.195	0.043
CF1206T/001	H	1A		0.115	0.073
CF1206T/1.50	K	1.5A		0.055	0.121
CF1206T/002	N	2A		0.029	0.250
CF1206T/2.50	O	2.5A		0.022	0.350
CF1206T/003	P	3A		0.018	0.442
CF1206T/004	S	4A		0.012	0.815
CF1206T/005	T	5A		0.009	1.682
CF1206T/007	U	7A		0.005	4.645

Tape and Reel Specification

ITEM	A	B	W	E	F	P ⁰	P ¹	P ²	D ⁰	T	10
Criterion	2.000	3.500	8.000	1.750	3.500	4.000	4.000	2.000	1.550	0.750	0.750
MAX	2.050	3.550	8.100	1.800	3.550	4.100	4.100	2.050	1.600	0.780	40.100
MIN	1.950	3.450	7.900	1.700	3.450	3.900	3.900	1.950	1.500	0.720	39.900

FUSES & FUSEHOLDERS

Radial Lead Fuses (Round)

- Quick Blow & Time Delay
- 250V Rating
- Supplied in taped ammo pack
- IEC 60127
- Time Delay: BSI approved
- Working Temperature -55 °C to + 125 °C

CFRT05



SPECIFICATION

Rating	Quick Blow	250V 50mA-6.3A
	Time Delay	250V 40mA-6.3A
Working Temperature	-55 °C to +125 °C	
Interrupt current		35A or 10x I _n @ 240V
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	60 mins min @ 1.5 I _n 30 mins max @ 2.1 I _n 10 msec min @ 2.75 I _n 3 sec max @ 2.75 I _n 3 msec min @ 4 I _n 300 msec max @ 4 I _n 20 msec max @ 10 I _n 60 mins min @ 1.5 I _n 400 msec min @ 2.75 I _n 10 sec max @ 2.75 I _n 150 msec min @ 4 I _n 3 sec max @ 4 I _n 20 msec min @ 10 I _n 150 msec max @ 10 I _n

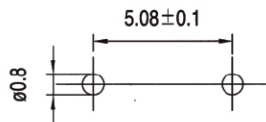
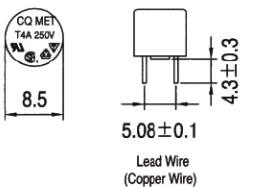
Quick Blow

TYPE NO.	RATING	I ² t
CFRT05F/50	50mA	0.000325
CFRT05F/63	63mA	0.001580
CFRT05F/80	80mA	0.003200
CFRT05F/100	100mA	0.005000
CFRT05F/125	125mA	0.006250
CFRT05F/160	160mA	0.007680
CFRT05F/200	200mA	0.024000
CFRT05F/250	250mA	0.043750
CFRT05F/315	315mA	0.059530
CFRT05F/400	400mA	0.080000
CFRT05F/500	500mA	0.083000
CFRT05F/600	600mA	0.119000
CFRT05F/800	800mA	0.192000
CFRT05F/1	1A	0.300000
CFRT05F/1.25	1.25A	0.468700
CFRT05F/1.6	1.6A	0.896000
CFRT05F/2	2A	1.200000
CFRT05F/2.5	2.5A	2.500000
CFRT05F/3.15	3.15A	3.969000
CFRT05F/4	4A	7.200000
CFRT05F/5	5A	15.000000
CFRT05F/6.3	6.3A	47.628000

Time Delay

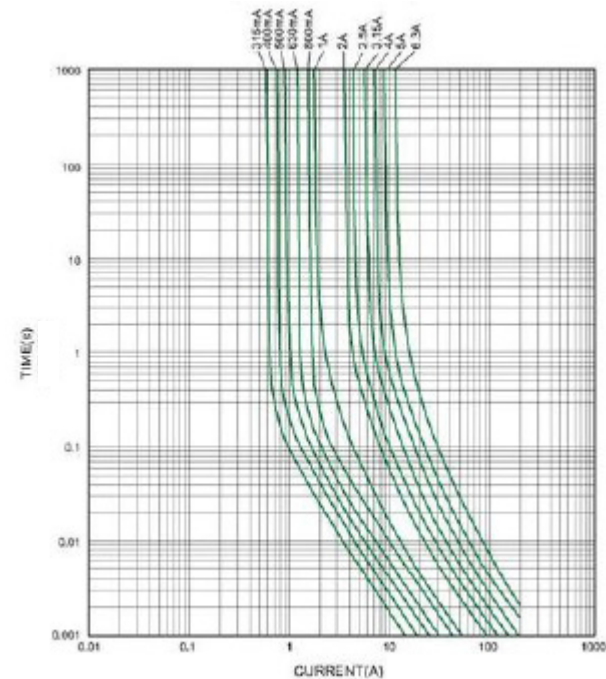
TYPE NO.	RATING	I ² t
CFRT05T/40	40mA	0.016000
CFRT05T/63	63mA	0.027700
CFRT05T/80	80mA	0.019200
CFRT05T/100	100mA	0.030000
CFRT05T/125	125mA	0.010900
CFRT05T/160	160mA	0.133100
CFRT05T/200	200mA	0.200000
CFRT05T/250	250mA	0.375000
CFRT05T/315	315mA	0.545700
CFRT05T/400	400mA	1.040000
CFRT05T/500	500mA	0.250000
CFRT05T/630	630mA	2.302000
CFRT05T/800	800mA	3.136000
CFRT05T/1	1A	6.500000
CFRT05T/1.25	1.25A	12.500000
CFRT05T/1.6	1.6A	18.944000
CFRT05T/2	2A	32.000000
CFRT05T/2.5	2.5A	37.500000
CFRT05T/3.15	3.15A	84.341000
CFRT05T/4	4A	144.000000
CFRT05T/5	5A	162.500000
CFRT05T/6.3	6.3A	277.830000

Time Delay

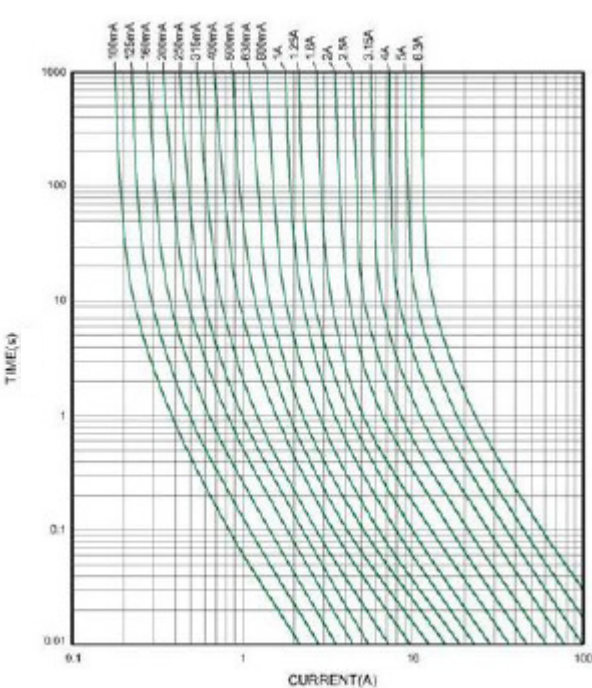


PCB Layout

Quick Blow



Time Delay

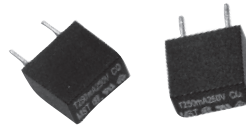


FUSES & FUSEHOLDERS

Radial Lead Fuses (Square)

- Quick Blow & Time Delay
- 250V Rating
- Supplied in taped ammo pack
- IEC 60127
- Working Temperature -55 °C to +125 °C
-    approved

CFST05



SPECIFICATION

Rating	Quick Blow	250V 50mA-6.3A
	Time Delay	250V 40mA-6.3A
Working Temperature	-55 °C to +125 °C	
Interrupt current	35A or 10x In @ 240V	
Soldering conditions	Infrared reflow	260°C for 20 sec max
	Wave flow	260°C for 10 sec max
Electrical characteristics	Quick Blow	60 mins min @ 1.5 In
		30 mins max @ 2.1 In
		10 msec min @ 2.75 In
		3 sec max @ 2.75 In
		3 msec min @ 4 In
		300 msec max @ 4 In
		20 msec max @ 10 In

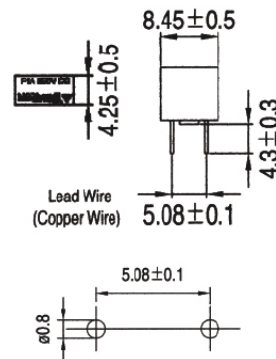
Quick Blow

TYPE NO.	RATING	I ² t
CFST05F/50	50mA	0.000325
CFST05F/63	63mA	0.001580
CFST05F/80	80mA	0.003200
CFST05F/100	100mA	0.005000
CFST05F/125	125mA	0.006250
CFST05F/160	160mA	0.007680
CFST05F/200	200mA	0.024000
CFST05F/250	250mA	0.043750
CFST05F/315	315mA	0.059530
CFST05F/400	400mA	0.080000
CFST05F/500	500mA	0.083000
CFST05F/600	600mA	0.119000
CFST05F/800	800mA	0.192000
CFST05F/1	1A	0.300000
CFST05F/1.25	1.25A	0.468700
CFST05F/1.6	1.6A	0.896000
CFST05F/2	2A	1.200000
CFST05F/2.5	2.5A	2.500000
CFST05F/3.15	3.15A	3.969000
CFST05F/4	4A	7.200000
CFST05F/5	5A	15.000000
CFST05F/6.3	6.3A	47.628000

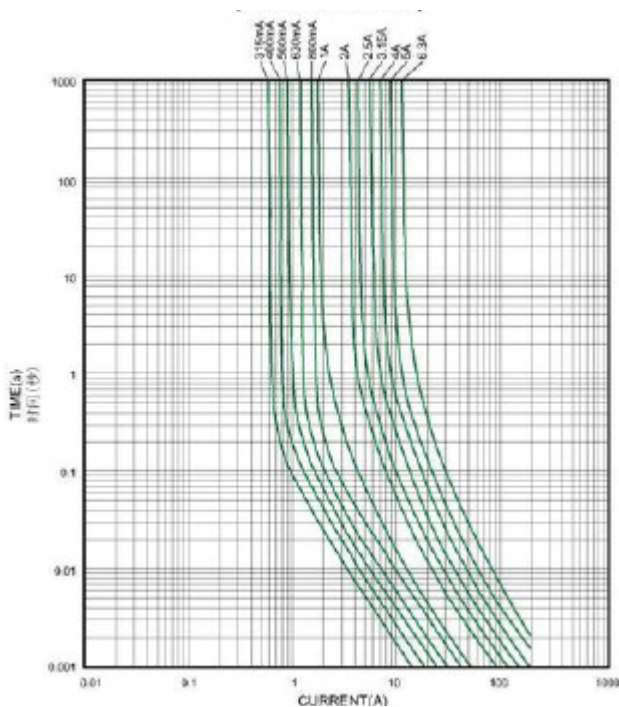
Time Delay

TYPE NO.	RATING	I ² t
CFST05T/40	40mA	0.016000
CFST05T/63	63mA	0.027700
CFST05T/80	80mA	0.019200
CFST05T/100	100mA	0.030000
CFST05T/125	125mA	0.010900
CFST05T/160	160mA	0.133100
CFST05T/200	200mA	0.200000
CFST05T/250	250mA	0.375000
CFST05T/315	315mA	0.545700
CFST05T/400	400mA	1.040000
CFST05T/500	500mA	0.250000
CFST05T/630	630mA	2.302000
CFST05T/800	800mA	3.136000
CFST05T/1	1A	6.500000
CFST05T/1.25	1.25A	12.50000
CFST05T/1.6	1.6A	18.94400
CFST05T/2	2A	32.00000
CFST05T/2.5	2.5A	37.50000
CFST05T/3.15	3.15A	84.34100
CFST05T/4	4A	144.0000
CFST05T/5	5A	162.5000
CFST05T/6.3	6.3A	277.8300

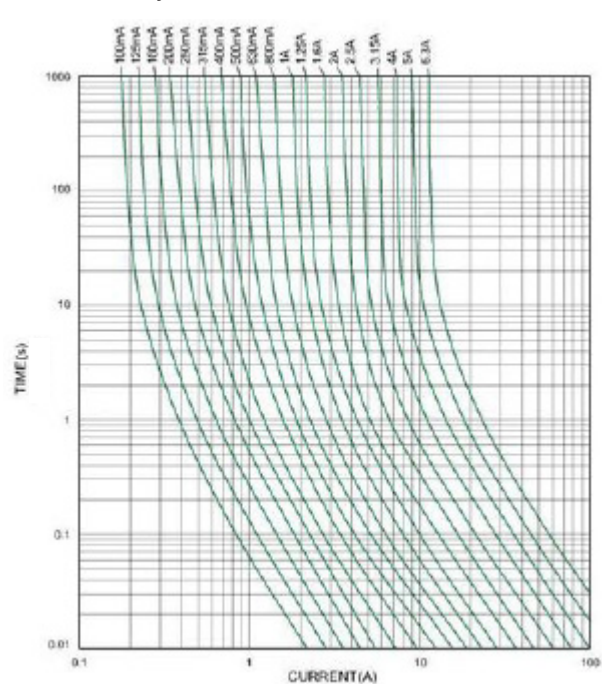
Time Delay



Quick Blow



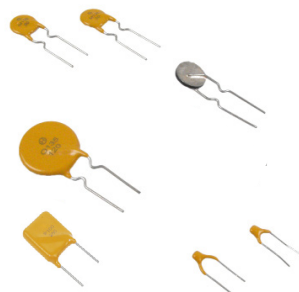
Time Delay



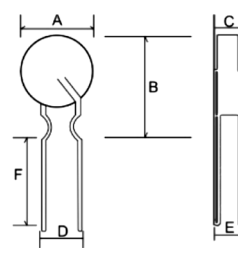
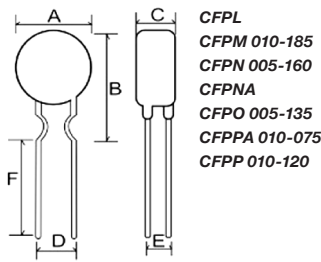
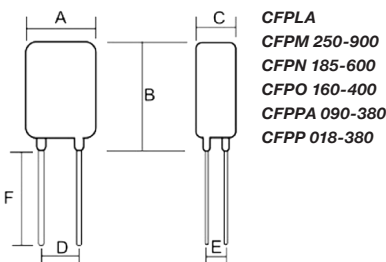
FUSES & FUSEHOLDERS

PTC Self-Resetting Fuses

- PTC - Polymer Positive Temperature Coefficient
- Voltages from 6V to 250V
- Ratings from 0.03A to 14A
- Radial lead
- UL94-V0 rated epoxy casing
- 5mm pitch available in bulk or ammo pack, 10mm pitch available in bulk
- UL pending, CFPO series

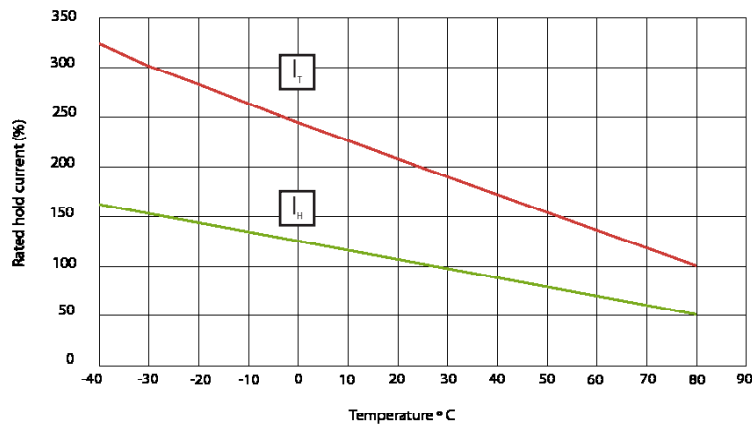


SPECIFICATION	
Temperature rating	-40°C to +85°C
Maximum temperature	≤125°C
Typical recovery time(25°C)	≤20secs after fault removed
Resistance at tripping point	V^2/P_d
The fuse will recover if $V^2/4R_L < P_d$ (R_L =load resistance, V =operating voltage and P_d =dissipation power)	
Materials:	Leads Tin plated copper or steel
	Body Flame retardant epoxy UL94-V0 rated



Selecting a PTC

- Select the PTC series by maximum V_{rms}
- Select the part number by the holding current I_H
- If the ambient temperature is not 25°C, select I_H using the following chart
- Check the minimum trip current I_T and trip time t_T against the rated over current



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6V & 16V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _T	A	B	C	D	E
CFPLA/005	6V	0.05A	13.0R	25.0R	0.10A	1A	3.1/0.25sec	3.10mm	6.40mm	2.30mm	3.0mm	0.9mm
CFPLA/010	6V	0.10A	2.54R	3.70R	0.20A	3A	3.1/0.50sec	3.10mm	6.40mm	2.30mm	3.0mm	0.9mm
CFPLA/020	6V	0.20A	0.78R	2.80R	0.40A	5A	3.1/1.00sec	3.10mm	6.40mm	2.30mm	3.0mm	0.9mm
CFPLA/030	6V	0.30A	0.60R	1.50R	0.60A	5A	3.1/1.50sec	3.40mm	6.70mm	2.30mm	3.0mm	0.9mm
CFPL/005	16V	0.05A	20.0R	35R	0.10A	1A	3.1/0.25sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/010	16V	0.10A	4.70R	8.50R	0.20A	3A	3.1/0.50sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/020	16V	0.20A	1.40R	2.50R	0.40A	5A	3.2/1.00sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/030	16V	0.30A	0.550R	1.130R	0.60A	5A	3.5/1.50sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/040	16V	0.40A	0.380R	0.750R	0.80A	10A	3.2/2.00sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/050	16V	0.50A	0.250R	0.620R	1.00A	10A	3.0/2.50sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/070	16V	0.70A	0.140R	0.350R	1.40A	20A	3.0/3.50sec	5.20mm	10.50mm	2.50mm	5.0mm	0.9mm
CFPL/090	16V	0.90A	0.110R	0.210R	1.80A	100A	2.8/4.50sec	6.50mm	11.50mm	2.50mm	5.0mm	0.9mm
CFPL/110	16V	1.10A	0.095R	0.160R	2.20A	100A	3.0/5.50sec	7.00mm	12.20mm	2.50mm	5.0mm	0.9mm
CFPL/130	16V	1.30A	0.075R	0.140R	2.60A	100A	3.0/6.50sec	7.80mm	12.80mm	2.50mm	5.0mm	0.9mm-
CFPL/160	16V	1.60A	0.063R	0.120R	3.20A	100A	3.2/8.00sec	8.20mm	13.20mm	2.50mm	5.0mm	1.00mm
CFPL/185	16V	1.85A	0.040R	0.094R	3.70A	100A	3.8/9.25sec	8.80mm	13.80mm	2.50mm	5.0mm	1.00mm
CFPL/250	16V	2.50A	0.028R	0.051R	5.00A	100A	4.3/12.5sec	9.80mm	14.80mm	2.50mm	5.0mm	1.30mm
CFPL/300	16V	3.00A	0.024R	0.042R	6.00A	100A	4.8/15.00sec	10.30mm	15.30mm	2.50mm	5.0mm	1.40mm
CFPL/400	16V	4.00A	0.014R	0.027R	8.00A	100A	5.0/20.00sec	10.00mm	18.80mm	2.80mm	5.0mm	1.40mm
CFPL/500	16V	5.00A	0.012R	0.023R	10.00A	100A	5.7/25.00sec	10.00mm	10.50mm	2.80mm	5.0mm	1.40mm
CFPL/600	16V	6.00A	0.010R	0.020R	12.00A	100A	6.3/30.00sec	12.00mm	18.80mm	2.80mm	5.0mm	1.40mm
CFPL/700	16V	7.00A	0.008R	0.018R	14.00A	100A	8.0/35.00sec	13.50mm	21.50mm	2.80mm	5.0mm	1.40mm
CFPL/900	16V	9.00A	0.005R	0.013R	18.00A	100A	9.6/45.00sec	14.50mm	24.00mm	2.80mm	5.0mm	1.40mm
CFPL/1100	16V	11.00A	0.004R	0.010R	22.00A	100A	10.8/55.0sec	19.00mm	26.50mm	2.80mm	10.0mm	1.40mm
CFPL/1200	16V	12.00A	0.004R	0.009R	24.00A	100A	13.0/60.0sec	20.50mm	27.00mm	2.80mm	10.0mm	1.40mm
CFPL/1400	16V	14.00A	0.003R	0.008R	28.00A	100A	15.0/70.0sec	23.00mm	31.00mm	2.80mm	10.0mm	1.70mm
CFPL/1600	16V	16.00A	0.002R	0.007R	32.00A	100A	18.0/80.0sec	28.00mm	35.00mm	2.80mm	10.0mm	1.70mm

30V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _T	A	B	C	D	E
CFPM/010	30V	0.10A	4.500R	8.500R	0.20A	40A	3.6/0.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/015	30V	0.15A	2.500R	4.780R	0.30A	40A	3.3/0.75sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/030	30V	0.30A	0.550R	1.100R	0.60A	40A	3.1/1.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/040	30V	0.40A	0.380R	0.750R	0.80A	40A	3.0/2.00sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/050	30V	0.50A	0.240R	0.580R	1.00A	40A	2.8/2.50sec	5.20mm	10.30mm	2.50mm	5.0mm	0.9mm
CFPM/070	30V	0.70A	0.135R	0.310R	1.40A	40A	3.0/3.50sec	6.50mm	11.50mm	2.50mm	5.0mm	0.9mm
CFPM/090	30V	0.90A	0.120R	0.210R	1.80A	40A	3.0/4.50sec	7.00mm	13.50mm	2.50mm	5.0mm	1.10mm
CFPM/110	30V	1.10A	0.095R	0.160R	2.20A	40A	3.2/5.50sec	7.80mm	14.20mm	2.50mm	5.0mm	1.10mm
CFPM/135	30V	1.35A	0.068R	0.140R	2.70A	40A	3.5/6.75sec	9.00mm	16.00mm	2.50mm	5.0mm	1.10mm
CFPM/160	30V	1.60A	0.065R	0.125R	3.20A	40A	3.8/8.00sec	9.80mm	16.50mm	2.80mm	5.0mm	1.10mm
CFPM/185	30V	1.85A	0.045R	0.095R	3.70A	40A	4.0/9.25sec	11.00mm	17.00mm	2.80mm	5.0mm	1.10mm
CFPM/250	30V	2.50A	0.025R	0.062R	5.00A	40A	5.2/12.50sec	11.50mm	17.30mm	2.80mm	5.0mm	1.30mm
CFPM/300	30V	3.00A	0.020R	0.042R	6.00A	40A	6.4/15.00sec	13.00mm	17.80mm	2.80mm	5.0mm	1.30mm
CFPM/400	30V	4.00A	0.014R	0.032R	8.00A	40A	7.3/20.00sec	16.00mm	20.50mm	2.80mm	10.0mm	1.30mm
CFPM/500	30V	5.00A	0.012R	0.028R	10.00A	40A	7.8/25.00sec	19.00mm	22.50mm	2.80mm	10.0mm	1.30mm
CFPM/600	30V	6.00A	0.008R	0.023R	12.00A	40A	9.0/30.00sec	21.50mm	25.00mm	2.80mm	10.0mm	1.30mm
CFPM/700	30V	7.00A	0.007R	0.020R	14.00A	40A	12.5/35.00sec	22.50mm	25.50mm	2.80mm	10.0mm	1.30mm
CFPM/800	30V	8.00A	0.006R	0.013R	16.00A	40A	13.7/40.00sec	24.80mm	27.50mm	3.00mm	10.0mm	1.50mm
CFPM/900	30V	9.00A	0.006R	0.012R	18.00A	40A	15.5/45.00sec	25.50mm	28.00mm	3.00mm	10.0mm	1.50mm

FUSES & FUSEHOLDERS

60V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _T	A	B	C	D	1.20mm
CFPN/005	60V	0.05A	15.0R	30.0R	0.10A	20A	2.5/0.25sec	4.20mm	10.50mm	2.50mm	5.0mm	1.20mm
CFPN/010	60V	0.10A	4.2R	9.5R	0.20A	40A	2.2/0.50sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/015	60V	0.15A	2.2R	5.5R	0.30A	40A	2.3/0.75sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/017	60V	0.17A	2.0R	4.2R	0.34A	40A	2.3/0.85sec	5.20mm	11.50mm	2.50mm	5.0mm	1.20mm
CFPN/020	60V	0.20A	1.4R	2.6R	0.40A	40A	2.3/1.00sec	6.00mm	12.10mm	2.50mm	5.0mm	1.20mm
CFPN/025	60V	0.25A	1.05R	1.85R	0.50A	40A	2.5/1.25sec	6.80mm	12.80mm	2.50mm	5.0mm	1.20mm
CFPN/030	60V	0.30A	0.700R	1.280R	0.60A	40A	2.8/1.50sec	6.80mm	12.80mm	2.50mm	5.0mm	1.20mm
CFPN/040	60V	0.40A	0.550R	0.910R	0.80A	40A	3.0/2.00sec	7.50mm	13.50mm	2.50mm	5.0mm	1.20mm
CFPN/050	60V	0.50A	0.380R	0.720R	1.00A	40A	3.5/2.50sec	8.70mm	14.80mm	2.50mm	5.0mm	1.20mm
CFPN/065	60V	0.65A	0.270R	0.450R	1.30A	40A	3.8/3.25sec	9.30mm	15.30mm	2.50mm	5.0mm	1.30mm
CFPN/075	60V	0.75A	0.230R	0.400R	1.50A	40A	4.1/3.75sec	9.50mm	15.50mm	2.80mm	5.0mm	1.30mm
CFPN/090	60V	0.90A	0.170R	0.350R	1.80A	40A	4.3/4.50sec	11.00mm	17.00mm	2.80mm	5.0mm	1.30mm
CFPN/110	60V	1.10A	0.130R	0.250R	2.20A	40A	4.8/5.50sec	11.50mm	17.50mm	2.80mm	5.0mm	1.30mm
CFPN/135	60V	1.35A	0.100R	0.200R	2.70A	40A	5.7/6.75sec	13.90mm	20.00mm	2.80mm	5.0mm	1.30mm
CFPN/160	60V	1.60A	0.070R	0.160R	3.20A	40A	6.5/8.00sec	14.00mm	20.30mm	2.80mm	5.0mm	1.70mm
CFPN/185	60V	1.85A	0.060R	0.130R	3.70A	40A	7.6/9.25sec	15.50mm	20.50mm	3.00mm	10.0mm	1.70mm
CFPN/210	60V	2.10A	0.055R	0.110R	4.20A	40A	8.5/10.50sec	16.50mm	22.80mm	3.00mm	10.0mm	1.70mm
CFPN/250	60V	2.50A	0.040R	0.085R	5.00A	40A	9.8/12.50sec	19.00mm	24.00mm	3.00mm	10.0mm	1.70mm
CFPN/300	60V	3.00A	0.032R	0.065R	6.00A	40A	10.3/15.00sec	22.50mm	26.00mm	3.00mm	10.0mm	1.70mm
CFPN/380	60V	3.80A	0.025R	0.050R	7.60A	40A	13.5/19.0sec	24.00mm	28.00mm	3.00mm	10.0mm	1.70mm
CFPN/500	60V	5.00A	0.018R	0.038R	10.00A	40A	17.6/25.00sec	27.00mm	31.00mm	3.00mm	10.0mm	1.70mm
CFPN/600	60V	6.00A	0.010R	0.028R	12.00A	40A	20.7/30.00sec	28.90mm	33.00mm	3.00mm	10.0mm	

130V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _T	A	B	C	D	1.70mm
CFPNA/010	130V	0.10A	6.500R	9.500R	0.20A	40A	6.0/0.50sec	7.55mm	13.80mm	3.00mm	5.0mm	1.70mm
CFPNA/015	130V	0.15A	4.000R	7.500R	0.30A	40A	5.5/0.75sec	7.55mm	13.80mm	3.00mm	5.0mm	1.70mm
CFPNA/017	130V	0.17A	3.000R	6.500R	0.34A	40A	5.2/0.85sec	8.20mm	14.80mm	3.00mm	5.0mm	1.70mm
CFPNA/020	130V	0.20A	1.900R	3.300v	0.40A	40A	5.0/1.00sec	8.20mm	14.80mm	3.00mm	5.0mm	1.80mm
CFPNA/025	130V	0.25A	1.450R	2.400R	0.50A	40A	4.8/1.25sec	8.20mm	14.80mm	3.00mm	5.0mm	1.80mm
CFPNA/030	130V	0.30A	0.900R	1.600R	0.60A	40A	4.5/1.50sec	8.20mm	14.80mm	3.00mm	5.0mm	1.80mm
CFPNA/040	130V	0.40A	0.750R	1.320R	0.80A	40A	4.5/2.00sec	9.30mm	15.80mm	3.00mm	5.0mm	1.80mm
CFPNA/050	130V	0.50A	0.500R	1.000R	1.00A	40A	5.0/2.50sec	10.00mm	16.30mm	3.00mm	5.0mm	1.80mm
CFPNA/065	130V	0.65A	0.450R	0.800R	1.30A	40A	5.2/3.25sec	11.20mm	17.40mm	3.00mm	5.0mm	1.80mm
CFPNA/075	130V	0.75A	0.350R	0.600R	1.50A	40A	5.5/3.75sec	11.40mm	17.80mm	3.00mm	5.0mm	2.00mm
CFPNA/090	130V	0.90A	0.250R	0.450R	1.80A	40A	5.8/4.50sec	12.00mm	18.40mm	3.00mm	5.0mm	2.00mm
CFPNA/110	130V	1.10A	0.180R	0.350R	2.20A	40A	6.3/5.50sec	14.00mm	20.00mm	3.00mm	5.0mm	2.00mm
CFPNA/135	130V	1.35A	0.140R	0.280R	2.70A	40A	7.5/6.75sec	16.00mm	21.50mm	3.00mm	5.0mm	1.70mm
CFPNB/010	130V	0.10A	4.500R	9.500R	0.20A	40A	4.0/0.50sec	7.50mm	13.00mm	2.10mm	5.0mm	1.70mm
CFPNB/015	130V	0.15A	2.400R	4.500R	0.30A	40A	4.0/0.75sec	7.50mm	13.00mm	2.10mm	5.0mm	1.70mm
CFPNB/020	130V	0.20A	1.650R	3.500R	0.40A	40A	4.0/1.00sec	8.00mm	14.00mm	2.10mm	5.0mm	1.70mm
CFPNB/025	130V	0.25A	1.100R	2.500R	0.50A	40A	3.5/1.25sec	8.00mm	14.00mm	2.10mm	5.0mm	1.70mm
CFPNB/030	130V	0.30A	0.750R	1.400R	0.60A	40A	3.0/1.50sec	8.20mm	14.00mm	2.30mm	5.0mm	1.70mm
CFPNB/040	130V	0.40A	0.650R	1.100R	0.80A	40A	3.0/2.00sec	9.30mm	15.30mm	2.30mm	5.0mm	1.70mm
CFPNB/050	130V	0.50A	0.400R	0.900R	1.00A	40A	3.2/2.50sec	10.00mm	16.00mm	2.30mm	5.0mm	1.70mm
CFPNB/065	130V	0.65A	0.350R	0.700R	1.30A	40A	3.8/3.25sec	11.00mm	17.00mm	2.30mm	5.0mm	1.70mm
CFPNB/075	130V	0.75A	0.300R	0.500R	1.50A	40A	4.0/3.75sec	11.00mm	17.00mm	2.30mm	5.0mm	1.70mm
CFPNB/090	130V	0.90A	0.200R	0.380R	1.80A	40A	4.0/4.50sec	12.00mm	18.00mm	2.30mm	5.0mm	1.70mm
CFPNB/110	130V	0.10A	0.180R	0.350R	2.20A	40A	4.8/5.50sec	14.00mm	20.00mm	2.30mm	5.0mm	

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FUSES & FUSEHOLDERS

120V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _r	A	B	C	D	E
CFPO/005	120V	0.05A	15.00R	25.00R	0.10A	10A	6.5/0.25sec	5.30mm	11.50mm	3.20mm	5.0mm	1.80mm
CFPO/010	120V	0.10A	6.000R	12.00R	0.20A	15A	6.5/0.50sec	5.30mm	11.50mm	3.20mm	5.0mm	1.80mm
CFPO/015	120V	0.15A	3.500R	6.500R	0.30A	15A	5.5/0.75sec	7.55mm	13.80mm	3.20mm	5.0mm	1.80mm
CFPO/017	120V	0.17A	3.000R	6.500R	0.34A	20A	5.2/0.85sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/020	120V	0.20A	1.900R	3.300R	0.40A	20A	5.0/1.00sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/025	120V	0.25A	1.450R	2.400R	0.50A	30A	4.8/1.25sec	8.20mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/030	120V	0.30A	0.900R	1.600R	0.60A	40A	4.5/1.50sec	8.80mm	14.80mm	3.20mm	5.0mm	1.80mm
CFPO/040	120V	0.40A	0.720R	1.320R	0.80A	40A	4.5/2.00sec	9.80mm	15.80mm	3.20mm	5.0mm	1.80mm
CFPO/050	120V	0.50A	0.500R	1.000R	1.00A	40A	5.0/2.50sec	10.30mm	16.30mm	3.30mm	5.0mm	2.00mm
CFPO/065	120V	0.65A	0.450R	0.800R	1.30A	40A	5.2/3.25sec	11.40mm	17.40mm	3.30mm	5.0mm	2.00mm
CFPO/075	120V	0.75A	0.350R	0.600R	1.50A	40A	5.5/3.75sec	11.40mm	17.80mm	3.30mm	5.0mm	2.00mm
CFPO/090	120V	0.90A	0.250R	0.450R	1.80A	40A	5.8/4.50sec	12.40mm	18.40mm	3.30mm	5.0mm	2.00mm
CFPO/110	120V	1.10A	0.180R	0.350R	2.20A	40A	6.3/5.50sec	14.80mm	20.00mm	3.30mm	5.0mm	2.00mm
CFPO/135	120V	1.35A	0.140R	0.280R	2.70A	40A	7.5/6.75sec	16.00mm	21.50mm	3.30mm	5.0mm	2.00mm
CFPO/160	120V	1.60A	0.110R	0.200R	3.20A	40A	8.8/8.00sec	17.80mm	22.80mm	3.70mm	10.0mm	2.20mm
CFPO/185	120V	1.85A	0.095R	0.180R	3.70A	40A	10.1/9.25sec	19.20mm	23.20mm	3.70mm	10.0mm	2.20mm
CFPO/210	120V	2.10A	0.075R	0.150R	4.20A	40A	12.5/10.50sec	22.90mm	24.50mm	3.70mm	10.0mm	2.20mm
CFPO/300	120V	3.00A	0.048R	0.081R	6.00A	40A	24.0/15.00sec	24.00mm	27.30mm	3.70mm	10.0mm	2.20mm
CFPO/400	120V	4.00A	0.038R	0.060R	8.00A	40A	16.0/20.00sec	31.80mm	35.50	3.70mm	10.0mm	2.20mm

240V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _r	A	B	C	D	E
CFPPA/010	240V	0.1A	6.20R	9.50R	0.20A	3A	5.4/0.50sec	7.60mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/012	240V	0.12A	5.80R	9.00R	0.24A	3A	5.8/0.60sec	7.60mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/015	240V	0.15A	4.00R	7.20R	0.30A	3A	5.8/0.75sec	8.00mm	12.00mm	3.60mm	5.0mm	2.20mm
CFPPA/018	240V	0.18A	3.80R	6.80R	0.36A	4A	5.8/0.90sec	8.40mm	12.40mm	3.60mm	5.0mm	2.20mm
CFPPA/020	240V	0.20A	2.80R	5.60R	0.40A	4A	6.0/1.00sec	8.40mm	12.40mm	5.10mm	5.0mm	2.80mm
CFPPA/025	240V	0.25A	2.50R	5.10R	0.50A	4A	6.0/1.25sec	11.00mm	15.00mm	5.10mm	5.0mm	2.80mm
CFPPA/030	240V	0.30A	1.90R	3.50R	0.60A	5A	6.12/1.50sec	11.00mm	15.00mm	5.10mm	5.0mm	2.80mm
CFPPA/040	240V	0.40A	1.20R	2.20R	0.80A	5A	6.5/2.00sec	12.00mm	16.00mm	5.10mm	5.0mm	2.80mm
CFPPA/050	240V	0.50A	0.65R	1.70R	1.00A	5A	6.8/2.50sec	14.00mm	18.00mm	5.10mm	5.0mm	2.80mm
CFPPA/065	240V	0.65A	0.55R	1.45R	1.30A	5A	7.36/3.25sec	15.50mm	18.80mm	5.10mm	10.0mm	2.80mm
CFPPA/075	240V	0.75A	0.50R	1.35R	1.50A	6A	7.8/3.75sec	15.80mm	18.80mm	5.10mm	10.0mm	3.00mm
CFPPA/090	240V	0.90A	0.35R	0.85R	1.80A	6A	8.4/4.50sec	18.50mm	22.50mm	5.10mm	10.0mm	3.00mm
CFPPA/100	240V	1.00A	0.32R	0.75R	2.00A	8A	9.7/5.00sec	18.50mm	22.50mm	5.10mm	10.0mm	3.00mm
CFPPA/130	240V	1.30A	0.25R	0.58R	2.60A	8A	11.8/6.50sec	23.50mm	26.80mm	5.10mm	10.0mm	3.00mm
CFPPA/170	240V	1.70A	0.18R	0.27R	3.40A	15A	13.8/8.50sec	25.30mm	29.00mm	5.10mm	10.0mm	3.00mm
CFPPA/200	240V	2.00A	0.100R	0.190R	4.00A	15A	18.9/10.00sec	29.50mm	34.00mm	5.10mm	10.0mm	3.00mm
CFPPA/300	240V	3.00A	0.055R	0.115R	6.00A	30A	24.6/15.00sec	36.00mm	40.00mm	5.10mm	10.0mm	3.00mm
CFPPA/380	240V	3.80A	0.04R	0.13R	7.60A	40A	29.1/19.00sec	42.00mm	46.00mm	5.10mm	10.0mm	3.00mm

FUSES & FUSEHOLDERS

250V PTC Fuses

	V _{rms}	I _H	Ω min	Ω max	I _T	I _{max}	t _T	A	B	C	D	E
CFPP/010	250V	0.10A	6.000R	12.00R	0.20R	3A	7.0/0.50sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/012	250V	0.12A	5.800R	9.000R	0.24R	3A	6.8/0.60sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/015	250V	0.15A	4.000R	7.200R	0.30R	3A	6.5/0.75sec	8.00mm	12.00mm	5.70mm	5.0mm	3.20mm
CFPP/018	250V	0.18A	3.800R	6.800R	0.36R	4A	6.2/0.90sec	8.40mm	12.40mm	5.70mm	5.0mm	3.20mm
CFPP/020	250V	0.20A	2.800R	5.600R	0.40R	4A	6.0/1.00sec	8.40mm	12.40mm	5.70mm	5.0mm	3.20mm
CFPP/025	250V	0.25A	2.500R	5.100R	0.50R	4A	6.6/1.25sec	11.00mm	15.00mm	5.70mm	5.0mm	3.20mm
CFPP/030	250V	0.30A	1.900R	3.500R	0.60R	5A	6.8/1.50sec	11.00mm	15.00mm	5.70mm	5.0mm	3.20mm
CFPP/040	250V	0.40A	1.200R	2.200R	0.80R	5A	7.1/2.00sec	12.00mm	16.00mm	5.70mm	5.0mm	3.20mm
CFPP/050	250V	0.50A	0.650R	1.700R	1.00R	5A	7.4/2.50sec	14.00mm	18.00mm	5.70mm	5.0mm	3.20mm
CFPP/065	250V	0.65A	0.550R	1.450R	1.30R	5A	8.0/3.25sec	15.50mm	18.80mm	5.70mm	10.0mm	3.20mm
CFPP/075	250V	0.75A	0.500R	1.350R	1.50R	6A	8.5/3.75sec	15.80mm	18.80mm	5.70mm	10.0mm	3.20mm
CFPP/090	250V	0.90A	0.350R	0.850R	1.80R	6A	9.1/4.50sec	18.50mm	22.50mm	5.70mm	10.0mm	3.20mm
CFPP/100	250V	1.00A	0.320R	0.750R	2.00R	8A	10.5/5.00sec	18.50mm	22.50mm	5.70mm	10.0mm	3.20mm
CFPP/130	250V	1.30A	0.220R	0.580R	2.60R	8A	12.8/6.50sec	23.50mm	26.80mm	5.70mm	10.0mm	3.20mm
CFPP/170	250V	1.70A	0.180R	0.360R	3.40R	15A	15.0/8.50sec	25.30mm	29.00mm	5.70mm	10.0mm	3.70mm
CFPP/200	250V	2.00A	0.100R	0.190R	4.00R	15A	20.5/10.00sec	29.50mm	34.00mm	5.70mm	10.0mm	3.70mm
CFPP/300	250V	3.00A	0.060R	0.125R	6.00R	30A	26.7/15.00sec	36.00mm	40.00mm	5.70mm	10.0mm	3.70mm
CFPP/380	250V	3.80A	0.040R	0.130R	7.60R	40A	32.3/19.00sec	42.00mm	46.00mm	5.70mm	10.0mm	3.70mm

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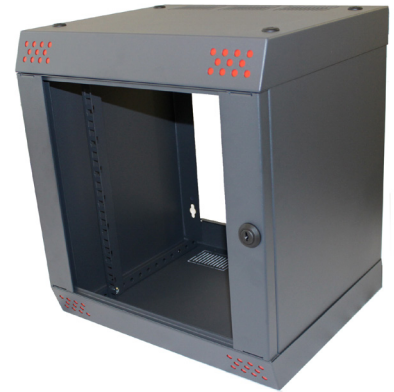
The **CAM**RACK Range



CamdenBoss' range of 19" cabinets come flat packed and assembled in just **3-5 minuets!**
Find them in our **Enclosures** catalogue.

Modular Cabinets.

600-800mm wide designed for cabling, telecommunications, IT and industrial.



Wall Mounted Cabinets.

Designed for cabling, telecommunications, IT, industrial and home installations



Corners available in 5 standard colours

Accessories also available



See our Enclosures catalogue, or call our sales team for more information!

LEDs & INDICATORS

SURFACE MOUNT LEDS

0603 Casing
0605 casing
0805 casing
1206 Casing

CL0603 p121
CL0605 p121
CL0805 p122
CL1206 p122

3mm LEDS

Diffused

CL3S1 p123

5mm LEDS

Diffused
High Brightness

CL5S1 p124
CL5H1 p124

AUDIBLE INDICATORS

22mm Panel

CBPI22 p125
CBPIFLB22 p125

INDICATORS

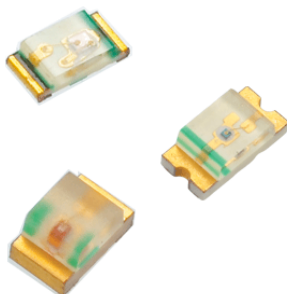
SM Series Press Fit 8mm Diameter
05 Series Snap Fit 13mm Diameter
A Series Press Fit 8mm Diameter
23-LED Series Press Fit 8mm Diameter
33-LED Series Threaded Body 6.5mm Diameter
34-LED Series Threaded Body 8mm Diameter
MPA Series Threaded Body 6.4mm Diameter
517 Series Snap-Fit 9mm Diameter
518 Series Snap-Fit 12mm Diameter
519 Series Snap-Fit 14mm Diameter
521 Series Snap-Fit 19mm Diameter
580 Series 90° Snap on Lens

501 p126
504 p126
503 p127
514 p128
512 p129
513 p129
515 p128
517 p131
518 p131
519 p132
521 p132
580 p133

LEDs & INDICATORS

Surface Mount LEDs

- Surface mount LEDs in packages conforming to EIA standards
- 0603, 0805 & 1206 sizes compatible with automated placement equipment
- IR and vapour phase reflow solder compatible
- Supplied on 8mm tape or 7 inch reel



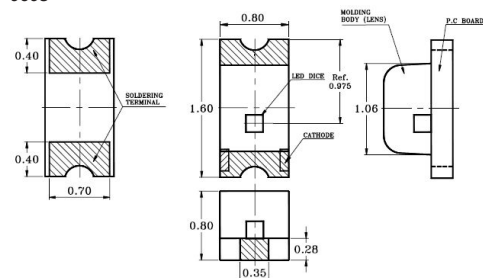
SPECIFICATION

Viewing angle	130°
Max Forward Current I_f	30mA (blue 20mA)
Max Reverse Voltage V_R	5V
Lens	Clear

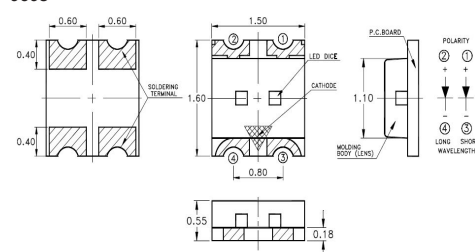
0603 / 0605 Casing

SPECIFICATION	COLOUR	DOMINANT WAVE LENGTH/ CIE COORDINATES (λ_d /CIE)	LUMINOUS INTENSITY (lv) TYP	MAX FORWARD VOLTAGE (V _f) TYP
CL0603RC	Red	631nm	20.0mcd*	2.4V
CL0603AC	Amber	602nm	6.0mcd	2.1V
CL0603YC	Yellow	588nm	80.0mcd	2.0V
CL0603GC	Green	569nm	12.0mcd	2.1V
CL0603BC	Blue	467nm	30.0mcd	3.4V
CL0603WC	White	0.294, 0.286	112.0mcd*	3.15V*
CL0605RC	Red	631nm	45.0mcd	2.0V
	Green	571nm	35.0mcd	2.0V

0603



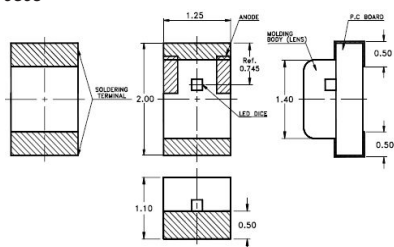
0605



0805 Casing

SPECIFICATION	COLOUR	DOMINANT WAVE LENGTH/ CIE COORDINATES (λ_d /CIE)	LUMINOUS INTENSITY (I_v)	MAX FORWARD VOLTAGE (V_f)
CL0805RC	Red	631nm	20.0mcd	2.0V
CL0805AC	Amber	602nm	4.5mcd	2.1V
CL0805YC	Yellow	588nm	6.0mcd	2.1V
CL0805GC	Green	569nm	6.0mcd	2.1V
CL0805BC	Blue	475nm*	112.0mcd*	3.8V*
CL0805WC	White	0.25,0.22	450mcd	3.8V

0805



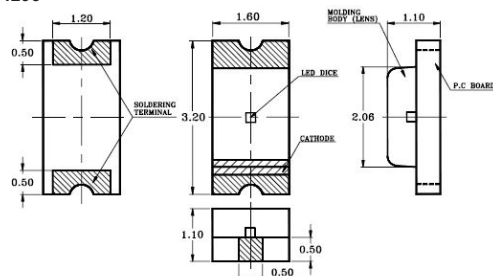
1206 Casing

SPECIFICATION	COLOUR	DOMINANT WAVE LENGTH/ CIE COORDINATES (λ_d /CIE)	LUMINOUS INTENSITY (I_v)	MAX FORWARD VOLTAGE (V_f)
CL1206RC	Red	631nm	20.0mcd	2.0V
CL1206AC	Amber	602nm	6.0mcd	2.1V
CL1206YC	Yellow	588nm	6.0mcd	2.1V
CL1206GC	Green	569nm	6.0mcd	2.1V
CL1206WC	White	0.294mm, 0.286mm	112mcd*	3.15V*
CL1206BC	Blue	475mm	28mcd	3.8V
CL1208RGC	Red	631nm	5.0mcd*	2.0V
	Green	571nm	35.0mcd*	2.0V

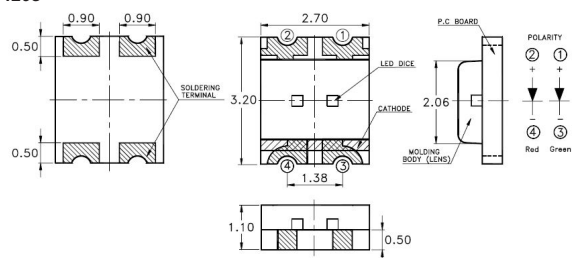
I_v = typical luminous intensity at 20mA

* = the maximum figure
Chromaticity coordinates (X,Y) derived
from 1931 CIE chromaticity diagram

1206



1208



LEDs & INDICATORS

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3mm LEDs

- High efficiency LEDs in a standard 3mm (T1) package
- Diffused lens option for indicator applications
- Bi-coloured red-green option has matched chips for uniform light output



SPECIFICATION

Max Forward Current I_F	30mA (Yellow/Amber 20mA)
Max Reverse Voltage V_R	5V
Lens	Clear & Diffused

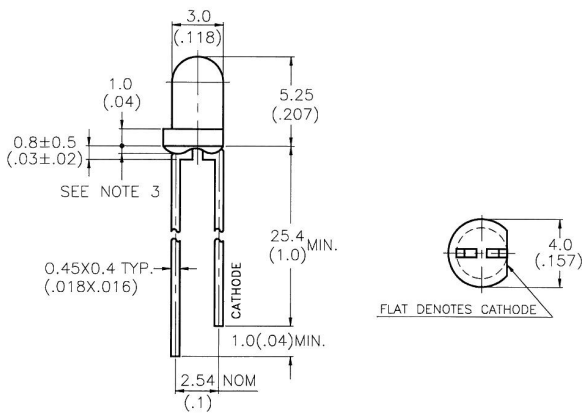
Further specifications available on request

Diffused

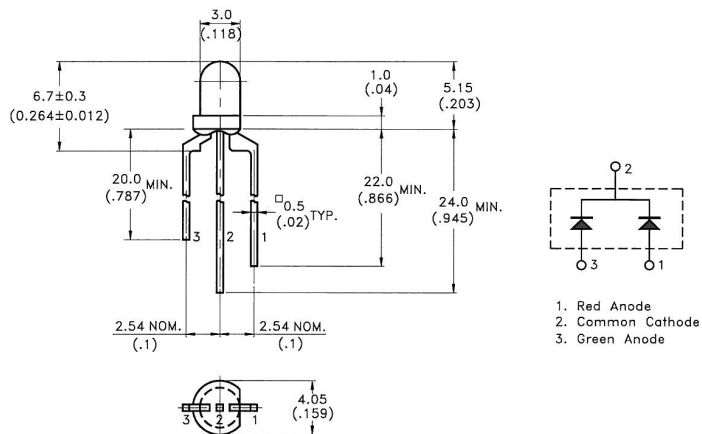
SPECIFICATION	COLOUR	LENS	DOMINANT WAVE LENGTH/ CIE COORDINATES (λ_d /CIE)	LUMINOUS INTENSITY (lv)	MAX FORWARD VOLTAGE (V)	VIEWING ANGLE
CL3S1RD	Red	Diffused	638nm	60mcd	2.4V	60°
CL3S1AD	Amber	Diffused	602nm	12.6mcd*	2.6V	60°
CL3S1YD	Yellow	Diffused	588nm	8.7mcd	2.6V	40°
CL3S1GD	Green	Diffused	569nm	12.6mcd*	2.1V	40°
CL3S1BD	Blue	Diffused	466nm	18mcd	3.8V	60°
CL3S1RGD	Red	Diffused	631nm	110mcd	2.4V	45°
	Green	Diffused	572nm	110mcd	2.4V	45°

* Denotes the maximum figure

3mm standard



3mm bicolour



LEDs & INDICATORS

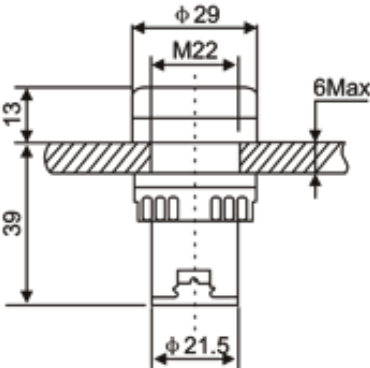
22mm Panel Indicators

- Multi-chip LED technology
- Modern and effective replacement for traditional 22mm pilot lights
- Low power consumption but brighter than standard incandescent indicators
- Back of panel lock nut fixing
- Screw clamp terminals
- Red, green, amber, white, and blue lens colour options as standard
- Audible version available

CBPI22 Series



TYPE NO.	CBPI22	XXX
CBPI22 Series Indicator	CBPI22	
12V	012	
24V	024	
110V	110	
230V	230	
Lens colour Red	RD	
Lens colour Green	GRN	
Lens colour Amber	AMB	
Lens colour White	WH	
Lens colour Blue	BLU	



22mm Panel Audible Indicators

CBPIFLB22 Series



TYPE NO.	CBPIFLB22	XXX
CBPIFLB22 Series Indicator	CBPIFLB22	
24V	024	
230V	230	
Short Body	SH	

LEDs & INDICATORS

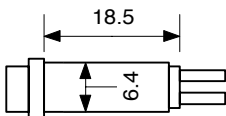
501 SM Series

- Press fit body for various panel thicknesses, panel cut-out 8mm diameter
- Stripped 10mm wire termination 162mm long as standard
- Neons 125-240V 0.8-1mA, as standard
- Pin termination to order
- LED, Filament 6-28V 30-40mA to order
- Pin termination available on low voltage LED and filament, lenses 1-3
- Polycarbonate lens/body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Four lens options as standard
- Custom wire lengths and specification to order

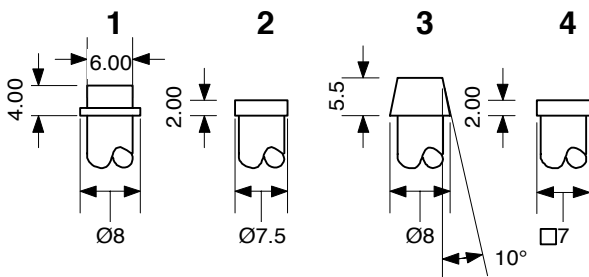


TYPE NO.	501	X	XX-XXXX-T /
501 Series Indicator	501		
Lens cylinder top-hat	1		
Lens cylinder low profile	2		
Lens cylinder tapered sides	3		
Lens square low profile	4		
Stripped wire 162mm long	05		
Pin termination	13		
LED, white cathode & black anode wires	LED		
Filament 6V 40mA, white wire	640		
Filament 14V 40mA, yellow wire	1440		
Filament 24V 35mA, green wire	24		
Filament 28V 30mA, green wire	28		
Neon 125V 1mA, blue wire	125		
Neon 240V 0.8mA, red wire	240		
Transparent lens	T		
Lens colour Red	RED		
Lens colour Green	GRN		
Lens colour Amber	AMB		

Body Dimensions



Lens Options



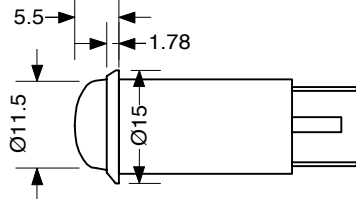
504 05 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 13mm diameter
- 6.3mm quick-connect terminals as standard
- Stripped 6mm wire termination 162mm long to order
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-48V 25-40mA, to order
- Polycarbonate lens/body and brushed chrome bezel
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order



TYPE NO.	504	2	XX-XXXX-T /
504 Series Indicator	504		
Lens Type	2		
6.3mm quick-connect terminal	03		
Stripped wire 162mm long	05		
LED, white cathode & black anode wires	LED		
Filament 6V 40mA, white wire	640		
Filament 12V 40mA, yellow wire	1240		
Filament 14V 40mA, yellow wire	1440		
Filament 24V 35mA, green wire	24		
Filament 28V 30mA, green wire	28		
Filament 48V 25mA, green wire	48		
Neon 125V 1mA, blue wire	125		
Neon 240V 0.8mA, red wire	240		
Transparent lens	T		
Lens colour Red	RED		
Lens colour Green	GRN		
Lens colour Amber	AMB		

Dimensions



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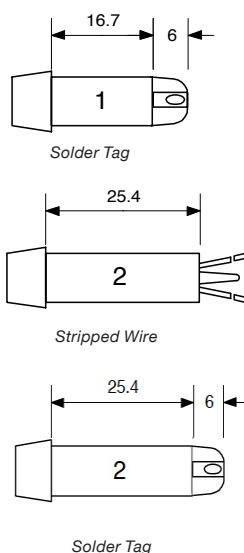
503 A Series

- Press fit body for various panel thicknesses, panel cut-out 8mm diameter
- Short body available with solder tags only.
- Long body available with solder tags and wire termination.
- LED, Filament 6-28V 30-40mA and Neons 125-240V 0.8-1mA, as standard
- Neon-replacement LED version is fitted with resistor and operates at 240V AC. Operating life 50,000 hours
- Polycarbonate lens/body and brushed chrome bezel
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order
- Removable collar fits to rear of panel for improved retention

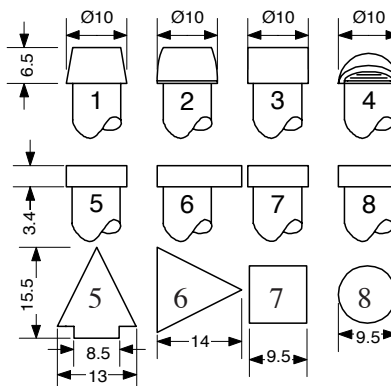


TYPE NO.	503	X	X	- T /
503 Series Indicator	503			
Lens cylinder tapered sides	1			
Lens cylinder curved sides	2			
Lens cylinder straight sides	3			
Lens domed	4			
Lens arrow	5			
Lens triangle	6			
Lens square	7			
Lens circle	8			
Short body 1	1			
Long body 2	2			
Stripped wire 280mm long	05			
Solder tag termination	11			
LED, white cathode & black anode wires	LED			
LED, neon-replacement, 240V 1mA	LED2			
Filament 6V 40mA, white wire	640			
Filament 14V 40mA, yellow wire	1440			
Filament 24V 35mA, green wire	24			
Filament 28V 30mA, green wire	28			
Neon 125V 1mA, blue wire	125			
Neon 240V 0.8mA, red wire	240			
Transparent lens	T			
Lens colour Red	RED			
Lens colour Green	GRN			
Lens colour Amber	AMB			

Body Dimensions



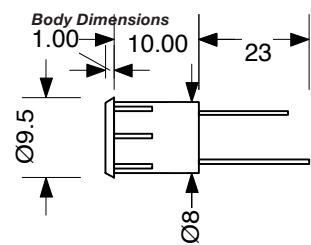
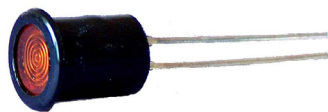
Lens Options



LEDs & INDICATORS

514 23-LED Series

- Voltage rating 5V
- Current rating 10mA
- Press-fit body for various panel thickness, panel cut-out 8.0mm diameter
- LED pin termination, anode pin cut short
- Polycarbonate body/bezel and lens
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 105°C



TYPE NO.	514	1	13 -	LED	- T /	XXX
515 Series Indicator	514					
Lens Type	1					
Pin termination	13					
LED, anode pin cut short	LED					
Transparent lens	T					
Lens colour Red	RED					
Lens colour Green	GRN					
Lens colour Amber	AMB					
Lens colour Blue	BLU					

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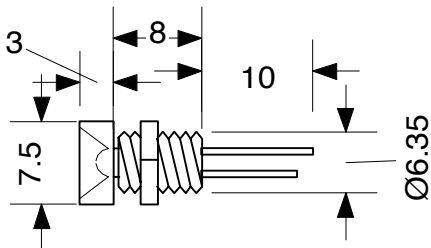
LEDs & INDICATORS

512 33-LED Series

- Voltage rating 5V
- Current rating 10mA
- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 6.5mm diameter
- 3.2mm LED with pin termination, anode pin cut short
- Chrome plated brass body/ bezel, supplied with nut and shakeproof washer
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 80°C



Body Dimensions



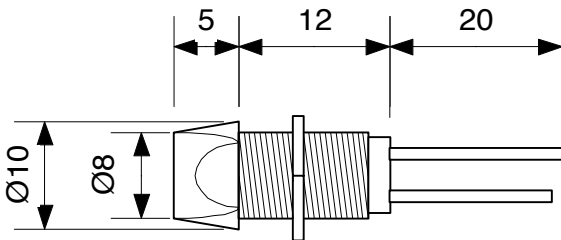
TYPE NO.	512	1	13	LED	- T /	XXX
515 Series Indicator	512					
Lens Type	1					
Pin termination	13					
LED, anode pin cut short	LED					
Transparent lens	T					
Lens colour Red	RED					
Lens colour Green	GRN					
Lens colour Amber	AMB					
Lens colour Blue	BLU					

513 34-LED Series

- Voltage rating 5V
- Current rating 10mA
- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 8.0mm diameter
- 5.0mm LED with pin termination, anode pin cut short
- Chrome plated brass body/ bezel, supplied with nut and spring washer
- Red, green, amber, and blue lens colour options as standard
- Maximum working temperature 80°C



Body Dimensions

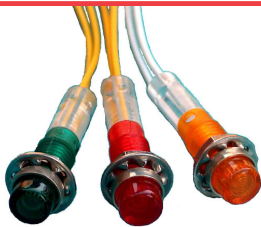


TYPE NO.	1	13	LED	- T /	XXX
515 Series Indicator	513				
Lens Type	1				
Pin termination	13				
LED, anode pin cut short	LED				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Blue	BLU				

LEDs & INDICATORS

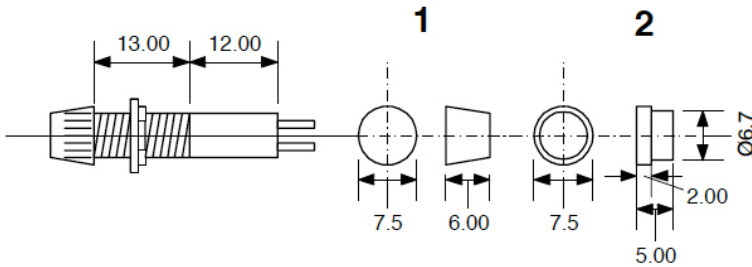
515 MPA Series

- Threaded body for panel thicknesses 0.5-3.5mm, panel cut-out 6.4mm diameter
- Stripped wire termination 164mm long, PVC stripped dimensions 10mm
- LED, Filament 6-28V 30-40mA and Neons 125-240V 0.8-1mA, as standard
- Neon-replacement LED version is fitted with a resistor and operates at 240V AC. Operating life 50,000 hours
- Polycarbonate lens/body, chrome bezel, supplied with nut and shakeproof washer
- Red, green, amber, clear, blue and opal lens colour options as standard
- Maximum working temperature 105°C
- Custom wire lengths and specification to order



TYPE NO.	515	1	05 - XXXX - T / XXX
515 Series Indicator	515		
Lens Type	Trapezoid	1	
	Top Hat	2	
Stripped wire 164mm long	05		
LED pins	13		
LED, black cathode & white anode wires	LED		
LED, neon-replacement 240V 1mA	LED2		
Filament 6V 40mA, white wire	640		
Filament 12V 35mA, yellow wire	1235		
Filament 14V 40mA, yellow wire	1440		
Filament 24V 35mA, green wire	24		
Filament 28V 30mA, green wire	28		
Filament 28V 25mA, green wire	28		
Neon 125V 1mA, blue wire	125		
Neon 240V 0.8mA, red wire	240		
Transparent lens	T		
Lens colour Red	RED		
Lens colour Green	GRN		
Lens colour Amber	AMB		
Lens colour Clear	CLR		
Lens colour Blue	BLU		
Lens colour Opal	OPL		

Body Dimensions



PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

LEDs & INDICATORS

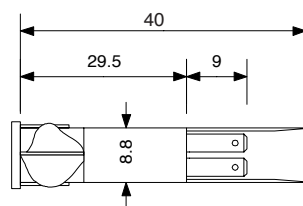
517 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 9mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber, clear lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order

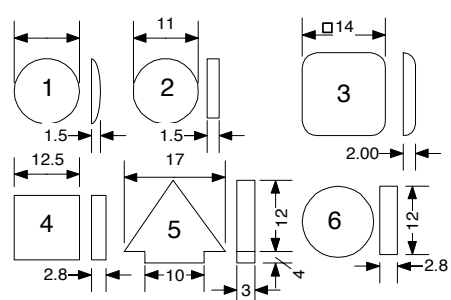


TYPE NO.	517	X	XX-XXXX	- T /	XXX
517 Series Indicator	517				
Lens 11mm circle domed	1				
Lens 11mm circle flat	2				
Lens 14mm square rounded	3				
Lens 12.5mm square	4				
Lens arrow	5				
Lens 12mm circle flat	6				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

Body Dimensions



Lens Options



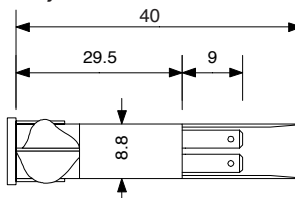
518 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 12mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber lens colour options as standard, clear to order
- Other lens colour options to order
- Four different 14mm lens options
- Custom wire lengths and specification to order

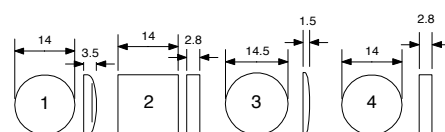


TYPE NO.	518	X	XX-XXXX	- T /	XXX
518 Series Indicator	518				
Lens 14mm circle domed	1				
Lens 14mm square flat	2				
Lens 14.5mm thin circle domed	3				
Lens 11mm circle flat	4				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

Body Dimensions



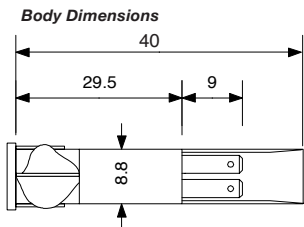
Lens Options



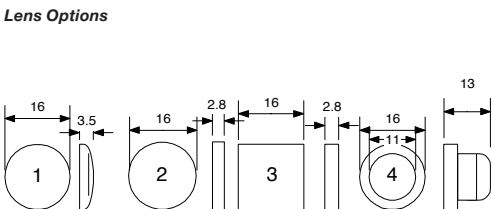
LEDs & INDICATORS

519 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 14mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber, clear lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order

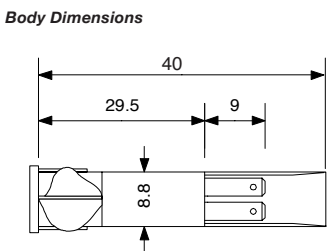


TYPE NO.	519	X	XX-XXXX	- T /	XXX
519 Series Indicator	519				
Lens 16mm circle domed	1				
Lens 16mm circle flat	2				
Lens 16mm square flat	3				
Lens 16/11mm mushroom	4				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

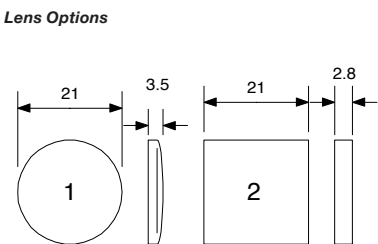


521 Series

- Snap fit body for panel thicknesses 0.5-3.5mm, panel cut-out 19mm diameter
- Stripped 6mm wire termination 155mm long, PVC
- Neons 125-240V 0.8-1mA, as standard
- LED and Filament 6-28V 30-40mA, to order
- Polycarbonate lens and body
- Maximum working temperature 105°C
- Red, green, amber clear lens colour options as standard
- Other lens colour options to order
- Custom wire lengths and specification to order



TYPE NO.	521	X	XX-XXXX	- T /	XXX
521 Series Indicator	521				
Lens 21mm circle domed	1				
Lens 21mm square flat	2				
Stripped wire 155mm long	05				
LED, white cathode & black anode wires	LED				
Filament 6V 40mA, white wire	640				
Filament 14V 40mA, yellow wire	1440				
Filament 24V 35mA, green wire	24				
Filament 28V 30mA, green wire	28				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				



LEDs & INDICATORS

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SUPPORTS

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FORMERS

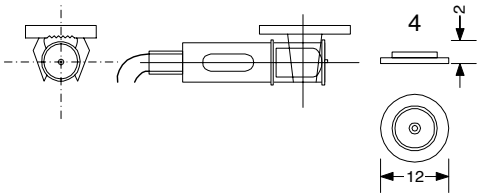
580 Series

- Open ended body with 90° snap on lens
- Stripped 6mm wire termination 200mm long, PVC
- Neons 240V 0.8mA as standard, 125V 1mA to order
- Polysulphone body and lens
- Red, green, amber and clear lens colour options as standard
- Maximum working temperature 105°C
- Custom wire lengths and specification to order



TYPE NO.	501	X	XX-XXXX	- T /	XXX
580 Series Indicator	580				
Lens Type	1				
Stripped wire 200mm long	05				
Neon 125V 1mA, blue wire	125				
Neon 240V 0.8mA, red wire	240				
Transparent lens	T				
Lens colour Red	RED				
Lens colour Green	GRN				
Lens colour Amber	AMB				
Lens colour Clear	CLR				

Body Profile



Lens Options

MINIATURE SWITCHES

MICROSWITCHES

V3 Type Microswitches

5A
10A
15A
5A
1ACSM305
CSM310
CSM315
CSM405
CSMU01p135
p135
p135
p136
p137LIMIT &
SAFETY
SWITCHESV4 Sub-miniature
Ultra Miniature

TACT SWITCHES

3.5x6mm Case Size

6x6mm Case Size

12x12mm

Through PCB Terminals
Surface Mount
Through PCB Terminals
PCB Mount
Horizontal PCB Terminals
Through PCB Terminals
Surface MountCST356T
CST356S
CST06ST
CST06SS
CST06SH
CST12ST
CST12SSp138
p138
p139
p139
p139
p140
p140CONTROL
PRODUCTSINTERFACE
MODULES &
SUPPORTSRELAY
BASES

ENCLOSURES

BATTERIES

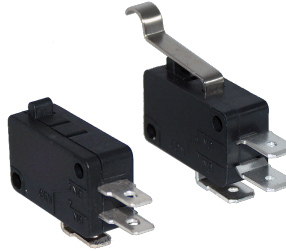
TRANS-
FORMERS

MINIATURE SWITCHES

V3 Type Microswitches 5A, 10A & 15A

- Rating 5A ,10A & 15A switching S.P.D.T.
- Coil spring mechanism
- 6.3mm (.250), 4.8mm (.187) quick connect, solder & screw terminals
- Button, lever or roller actuators
-  approved

CSM3



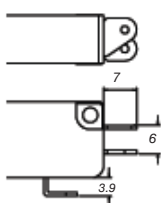
SPECIFICATION

Rating	CSM31500	15A/250VAC
	CSM31000	10A/250VAC
	CSM30500	5A/250VAC
Contact resistance	30mΩ max	
Insulation strength	100MΩ min/500VAC	
Electrical Life	50,000 operations min	
Temperature range	-10°C to +105°C	
Material	Case	PBT
	Button	Bakelite
	Actuator	Stainless steel
	Contacts	AgNi10-Cu
		Silver Plated Brass

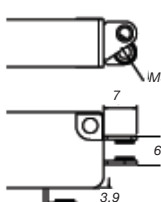
15A	10A	5A	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSM31500-	CSM31000-	CSM30500-	Button	3N	0.7N	14.9 ± 0.4mm	1.4mm	0.4mm	1mm
CSM31510-	CSM31010-	CSM30510-	Short Lever	3N	0.7N	15.8 ± 0.5mm	1.4mm	0.5mm	1mm
CSM31520-	CSM31020-	CSM30520-	Standard Lever	0.7N	0.15N	16.3 ± 1.2mm	4mm	1mm	2mm
CSM31530-	CSM31030-	CSM30530-	Long Lever	0.25N	0.05N	17.2 ± 2.5mm	8mm	2mm	4mm
CSM31531-	-	CSM30531-	Long Wide Lever	0.25N	0.07N	17.2 ± 2.5mm	8mm	2mm	4mm
CSM31540-	CSM31040-	CSM30540-	Simulated Roller	1.05N	0.2N	19.5 ± 1.2mm	4mm	1mm	2mm
CSM31550-	CSM31050-	CSM30550-	Standard Roller	3.2N	0.6N	21.4 ± 0.6mm	1.4mm	0.4mm	1mm
CSM31560	CSM31060-	CSM30560-	Long Arm Roller	0.8N	0.15N	21.4 ± 1.2mm	4mm	1mm	2mm

Types of Terminal:

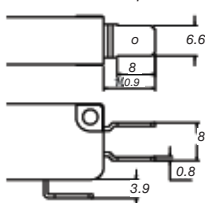
Suffix A = Solder



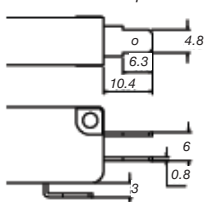
Suffix B = Screws



Suffix O = 8.8 quick connect

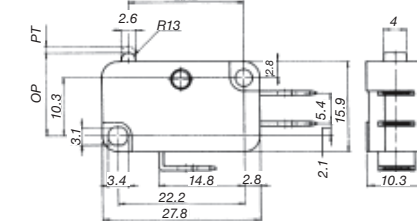


Suffix D = 4.8 quick connect

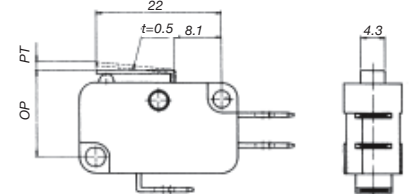


Types of Actuator:

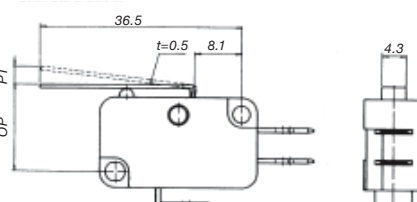
Button



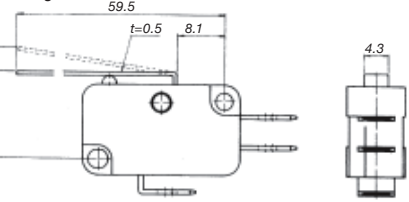
Short Lever



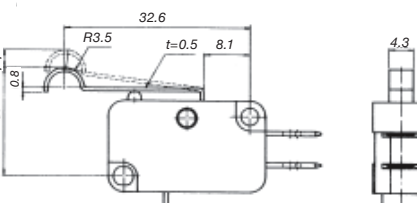
Standard Lever



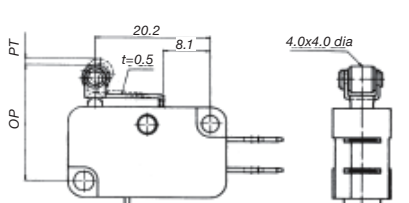
Long Lever



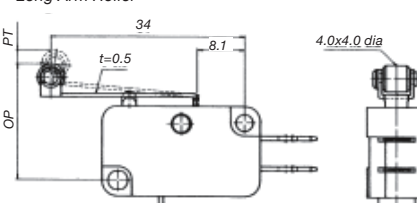
Simulated Roller



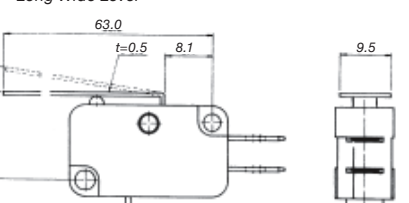
Standard Roller



Long Arm Roller



Long Wide Lever



MINIATURE SWITCHES

V4 Type Sub Miniature Microswitches 5A

- Rating 5A switching S.P.D.T.
(10A to order)
- Long life coil
spring mechanism
- Solder, PCB, 90° PCB
mounting or 2.8mm quick
connect terminals
- Button, lever or
roller actuators
- Anti Solder Wicking
-  US approved

CSM405



SPECIFICATION

Rating	5A/250VAC (10A to order)
Contact resistance	50mΩ max
Insulation strength	100MΩ min/500VDC
Electrical Life	50,000 operations min
Temperature range	-10°C to +125°C
Material	Case PBT Button PPS Actuator Stainless steel Contacts AgNi10
Terminals	Brass alloy H65 Silver Plated

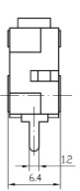
	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSM40500-	Button	1.5N	0.3N	8.6 ± 0.4mm	0.8mm	0.2mm	0.5mm
CSM40510-	Short Lever	0.25N	0.04N	8.9 ± 1mm	4.6mm	0.8mm	0.8mm
CSM40511-	Short Upturned Lever						
CSM40520-	Standard Lever	0.25N	0.06N	8.9 ± 1mm	5mm	0.8mm	1.2mm
CSM40530-	Long Lever	0.2N	0.03N	9.6 ± 2mm	7.5mm	1.5mm	1.6mm
CSM40540-	Simulated Roller	0.25N	0.04N	12 ± 1.2mm	4.7mm	0.8mm	1.2mm
CSM40550-	Standard Roller	0.25N	0.04N	15.2 ± 1mm	4.8mm	0.9mm	1.2mm
CSM40570-	Wave Lever						
CSM40580-	Extra Long Lever	0.1N	0.02N	9.8 ± 1.5mm	8mm	2.5mm	1.5mm
CSM40581-	Extra Long Stepped Lever						

Types of Terminals: Types of Actuators:

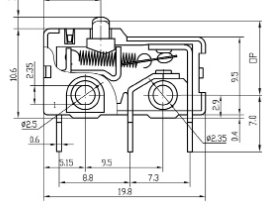
Suffix A = Solder



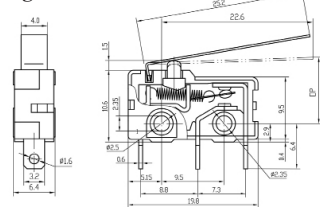
Button



Short Lever



Long Lever



Suffix E =
2.8mm quick connect



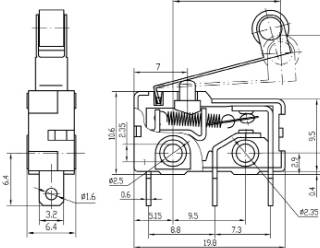
Simulated Roller



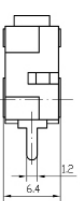
Short Upturned Lever



Standard Roller



Suffix F =
PCB mount



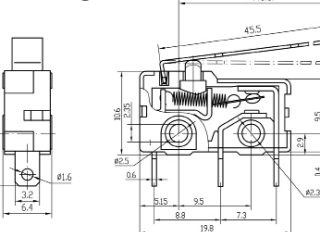
Standard Lever



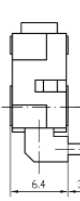
Wave Lever



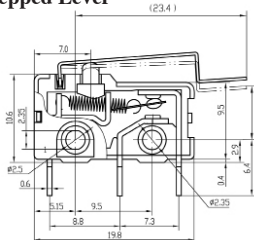
Extra Long Lever



Suffix G = 90



Extra Long Stepped Lever



OSM405 Series Replaces OSM35 Series
OSM405 Series Terminal Suffix E, F, G Replaces OSM35 Series Terminal Suffix B, O, D respectively
OSM405 Series Lever Options 30, 40, 11, 20, 41 Replaces OSM35 Series Lever Options 20, 30, 40, 60, 70, 90
Example OSM40530E replaces OSM3520B
Example OSM40511G replaces OSM3540D
Example OSM40541F replaces OSM3570C
Example OSM40540E replaces OSM3530C
Example OSM40520E replaces OSM3560B
Example OSM40581G replaces OSM3590D



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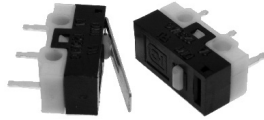
TRANS-
FORMERS

MINIATURE SWITCHES

Ultra Miniature Microswitches

- Rating 3A switching S.P.D.T.
- Space saving
- Button , lever or roller actuators
- PCB mounting
- 90° Pins available to order
-   approved

CSMU01



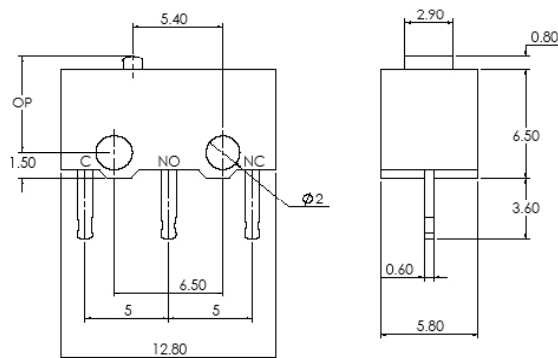
SPECIFICATION

Rating	3A/125VAC
Contact resistance	50mΩ max
Insulation strength	100MΩ min/500VDC
Electrical Life	10,000 operations min
Temperature range	-10°C to +85°C
Material	Case PBT
	Button PBT
	Actuator Stainless steel
	Contacts AgNi10
Terminals	Brass alloy H65 Silver Plated

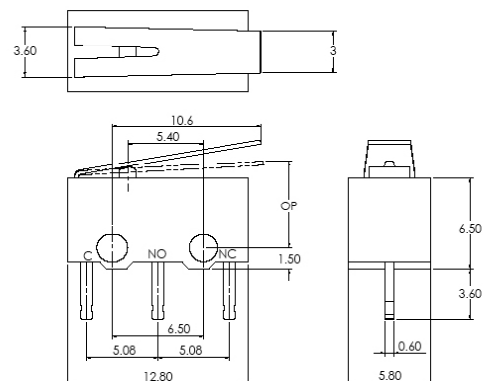
	ACTUATOR STYLE	OPERATING FORCE MAX	RELEASE FORCE MAX	OPERATING POSITION	PRE TRAVEL MAX	MOVEMENT DIFFERENTIAL	OVER TRAVEL MIN
CSMU0100	Button	1.5N	0.08N	5.5 ± 0.3mm		0.2mm	0.2mm
CSMU0101	Tapered Lever	0.23N	0.03N	6.2 ± 0.8mm		0.7mm	0.7mm
CSMU0106	Parallel Lever	0.23N	0.03N	7 ± 1.2mm		0.7mm	0.7mm
CSMU0140	Simulated Roller	0.4N	0.05N	8.2 ± 1.5mm	4.2mm	0.9mm	0.9mm

Types of Actuator:

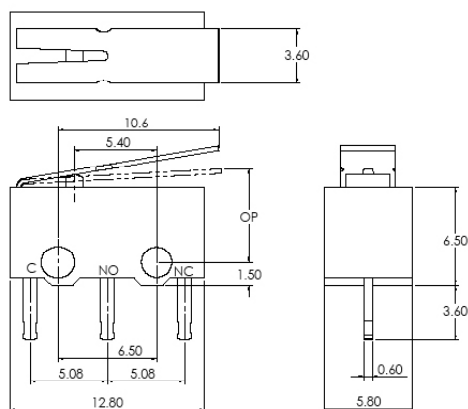
Button



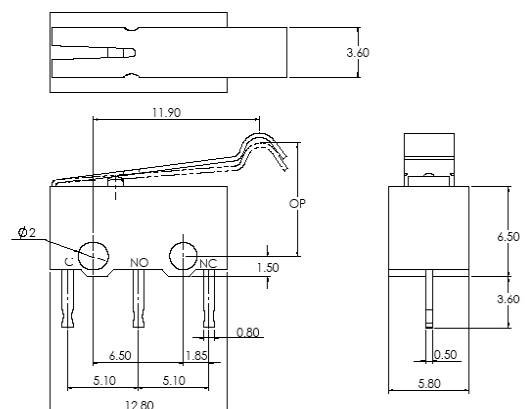
Tapered Lever



Parallel Lever



Simulated Roller



MINIATURE SWITCHES

3.5x6mm Tact Switches

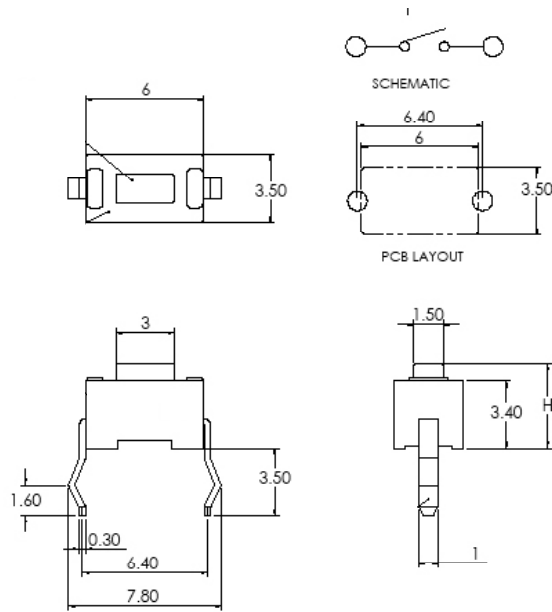
- Compact design
- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB and surface mount terminals
- Can be supplied taped for auto-insertion, add suffix /T

SPECIFICATION	
Rating	50mA/12VDC
Contact resistance	100mΩ max
Insulation strength	100MΩ min/500VDC
Electrical life	
Through Hole	30,000 operations min
Surface Mount	30,000 operations min
Temperature range	-10°C to +60°C
Operating force	180GF ± 50GF
Material	Case Nylon
	Button Nylon
	Contacts Stainless Steel Silver Plated
Terminals	Brass Silver Plated

Through-hole PCB Terminals

TYPE NO.	BUTTON HEIGHT
CST35643T	4.3mm
CST35605T	5.0mm

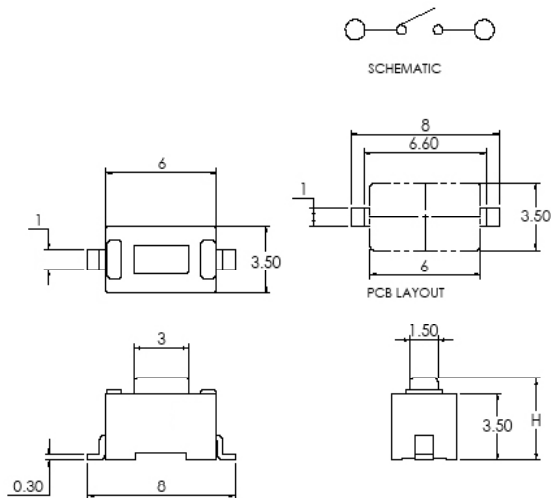
CST356T



Surface Mount Terminals

TYPE NO.	BUTTON HEIGHT
CST35643S	4.3mm
CST35605S	5.0mm

CST356S



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MINIATURE SWITCHES

6x6mm Tact Switches

- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB, surface mount & horizontal terminals
- Square & round button styles
- Other button heights available
- Can be supplied taped for auto-insertion, add suffix /T

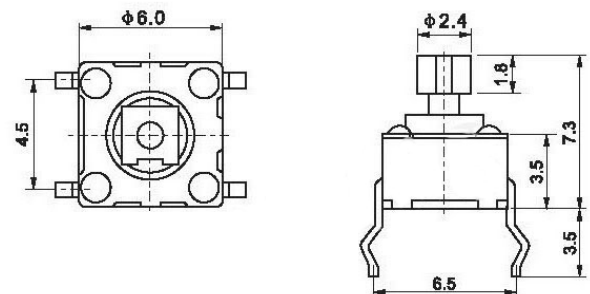
SPECIFICATION

Rating	50mA/12VDC
Contact resistance	100mΩ max
Insulation strength	100MΩ min/500VDC
Electrical life	CST06S00T 100,000 operations min CST06S00S 100,000 operations min CST06S00H 100,000 operations min
Temperature range	-10°C to +60°C
Operating force	180 ± 70g
Material	Case Nylon Button Nylon Contacts Phosphor Bronze Silver Plated
Terminals	Brass Silver Plated

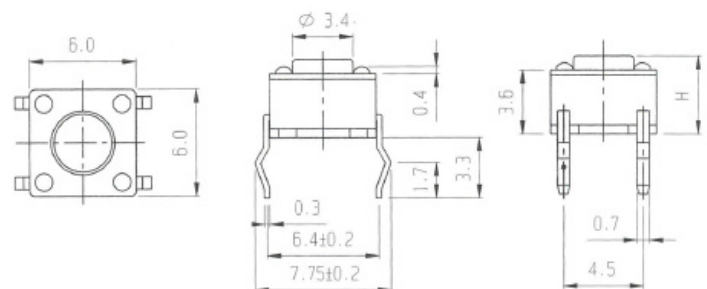
Through-hole PCB Terminals

TYPE NO.	BUTTON HEIGHT	BUTTON SIZE
CST06S0AT	7.4mm	2.4 x 2.4mm
CST06S43T	4.3mm	ø3.4mm
CST06S05T	5mm	ø3.4mm
CST06S73T	7.3mm	ø3.4mm
CST06S08T	8mm	ø3.4mm
CST06S95T	9.5mm	ø3.4mm
CST06S13T	13mm	ø3.4mm

CST06S0AT



CST06ST

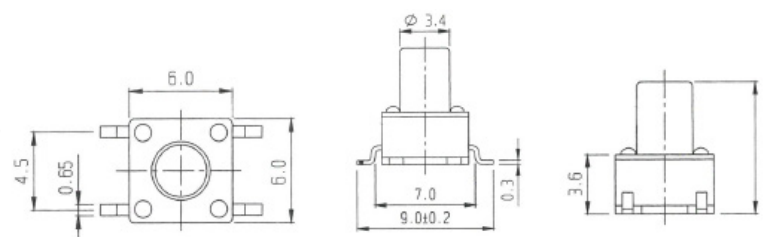


Surface Mount Terminals

TYPE NO.	BUTTON HEIGHT
CST06S43S	4.3mm
CST06S05S	5mm
CST06S08S	8mm

Suffix /T = Tape & Reel

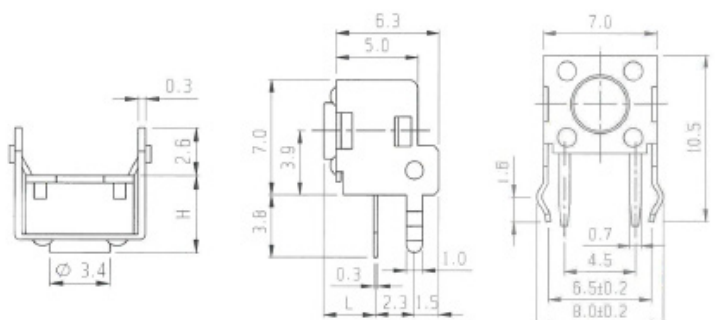
CST06SS



Horizontal PCB Terminals

TYPE NO.	BUTTON HEIGHT
CST06S43H	4.3mm
CST06S05H	5mm
CST06S08H	8mm

CST06SH



MINIATURE SWITCHES

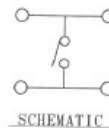
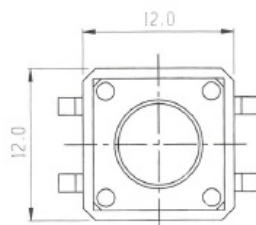
12x12mm Tact Switches

- Advanced switch technology
- Positive tactile action
- Tamper proof application
- Flow solder wash-away cleaning
- Through-hole PCB & surface mount terminals
- Square & round button styles
- Choice of button caps
- Can be supplied taped for auto-insertion, add suffix /T

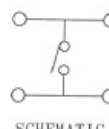
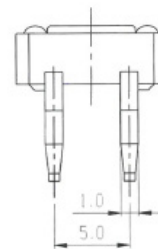
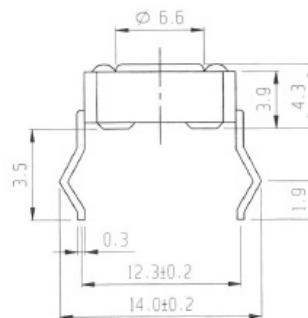
SPECIFICATION			
Rating		50mA/12VDC	
Contact resistance		100mΩ max	
Insulation strength		100MΩ min/500VDC	
Electrical life	CST12S0AT	100,000 operations min	
	CST12S43T	100,000 operations min	
	CST12S0AS	100,000 operations min	
	CST12S43S	100,000 operations min	
Temperature range		-10°C to +60°C	
Operating force		180 ± 70g	
Material	Case	Nylon	
	Button	Nylon	
	Contacts	Phosphor Bronze Silver Plated	
Terminals		Brass Silver Plated	

Through-hole PCB Terminals

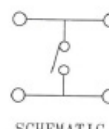
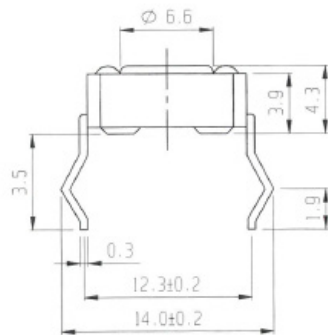
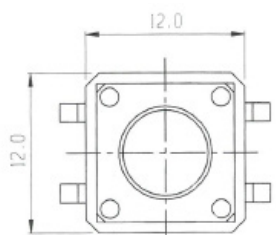
TYPE NO.	BUTTON HEIGHT
CST12S0AT	7.3mm
CST12S43T	4.3mm



SCHEMATIC



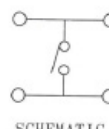
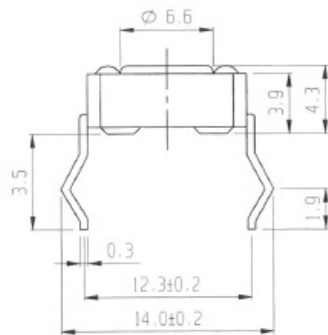
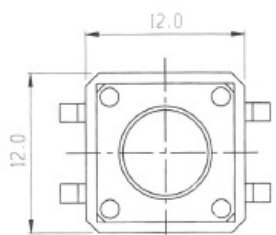
SCHEMATIC



SCHEMATIC

Surface Mount

TYPE NO.	BUTTON HEIGHT
CST12S0AS	7.3mm
CST12S43S	4.3mm



SCHEMATIC

LIMIT & SAFETY SWITCHES

LIMIT SWITCHES

30mm Wide, Metal IP66 and Plastic IP65
40mm Wide, Metal IP66 and Plastic IP65
50mm Wide, Plastic IP65
50mm Wide, Metal IP66
60mm Wide, Metal IP66
30mm Wide, Pre-Wired IP67
35mm Wide, Pre-Wired IP67

CE10 p143
CE41 p144
CE20 p145
CE21 p146
CE31 p147
CE70 p148
CE60 p149

CONTROL
PRODUCTSINTERFACE
MODULES &
SUPPORTS

SAFETY SWITCHES

30mm Polymeric Casing 1 cable Inlet IP65

90° Adjustable Head, Key Operated
Zinc Plated Shaft
Pull Wire Without Reset for Simple Stop

CE10.00.S5P p150
CE10.00.SCP p150
CE10.00.TB p150
CE10.00.S5M p150
CE10.00.SCM p150
CE10.00.TM p150

30mm Metal Casing 1 cable Inlet IP66

90° Adjustable Head, Key Operated
Zinc Plated Shaft

CE10.00.S5M p150
CE10.00.SCM p150
CE10.00.TM p150

40mm Polymeric Casing 1 cable Inlet IP65
40mm Metal Casing 1 cable Inlet IP66

90° Adjustable Head, Key Operated
Pull Wire Without Reset for Simple Stop

CE41.00.S5P p151
CE41.00.S5M p151
CE41.00.TM p151

50mm Polymeric Casing 3 cable Inlet IP65

90° Adjustable Head, Key Operated
Zinc Plated Shaft

CE20.00.S5P p151
CE20.00.SCP p151
CE20.00.TB p151

50mm Metal Casing 3 cable Inlet IP66

90° Adjustable Head, Key Operated
Zinc Plated Shaft

CE21.00.S5M p151
CE21.00.SCM p151
CE21.00.TM p151

60mm Metal Casing 1 cable Inlet IP66

90° Adjustable Head, Key Operated
Pull Wire Without Reset for Simple Stop

CE31.00.S5M p151
CE31.00.TM p151

ENCLOSURES

BATTERIES

TRANS-
FORMERS

LIMIT & SAFETY SWITCHES

30mm Wide Limit Switches

- 30mm width
- Double insulated plastic to IP65
- Metal casing to IP66
- Snap action contacts
-  approved

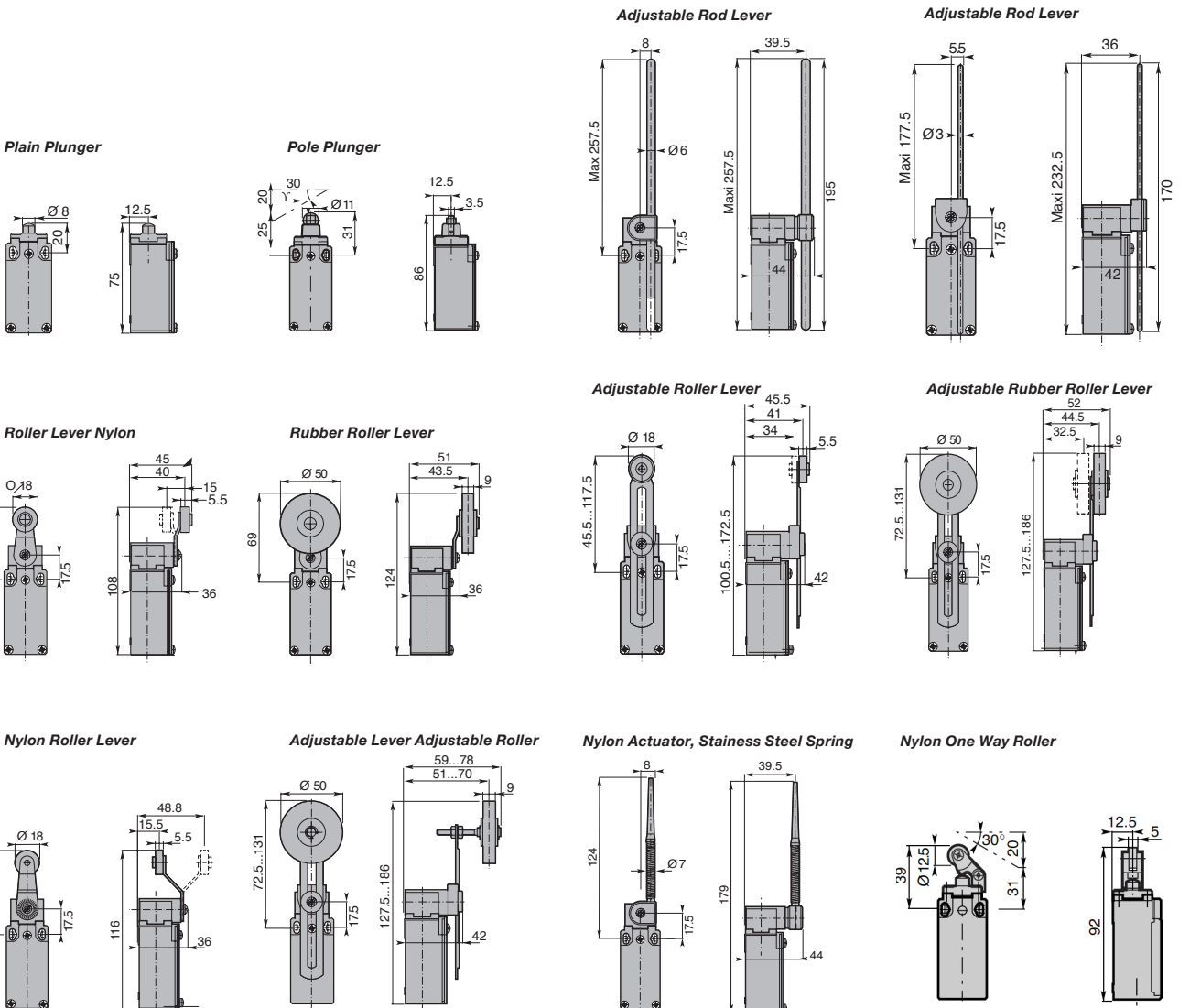
CE 10



SPECIFICATION

Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	IP65 PLASTIC CASING	IP65 METAL HEAD PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE10.00.AM	CE10.00.AP	CE10.00.AI	Plain Plunger	0.5ms ⁻¹	15N/30N
CE10.00.BM	CE10.00.BP	CE10.00.BI	Roller Plunger	0.3ms ⁻¹	12N/30N
CE10.00.GM	CE10.00.GP	CE10.00.GI	Adjustable Rod Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.HM	CE10.00.HP	CE10.00.HI	Adjustable Rod Lever	1.3ms ⁻¹	0.10Nm/0.32Nm
CE10.00.EM	CE10.00.EP	CE10.00.EI	Roller Lever Nylon	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.EM/50	CE10.00.EP/50	CE10.00.EI/50	Rubber Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.FM	CE10.00.FP	CE10.00.FI	Adjustable Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.FM/50	CE10.00.FP/50	CE10.00.FI/50	Adjustable Rubber Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.IM	CE10.00.IP	CE10.00.II	Nylon Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.FRM/50	CE10.00.FRP/50	CE10.00.FRI/50	Adjustable Lever Adjustable Roller	1.5ms ⁻¹	0.10Nm/-
CE10.00.HLTM	CE10.00.HLTP	CE10.00.HLTI	Nylon Actuator, Stainless Steel Spring	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.KM	CE10.00.KP	CE10.00.KI	Nylon One Way Roller, Steel Plunger	1.5ms ⁻¹	0.10Nm/0.32Nm
CE10.00.KMN	CE10.00.KPN	CE10.00.KIN	Nylon One Way Roller, Nylon Plunger	1.5ms ⁻¹	0.10Nm/0.32Nm



LIMIT & SAFETY SWITCHES

40mm Wide Limit Switches

- 40mm width
- IP65 double insulated plastic
- IP66 metal casing
- Snap action contacts
-  approved

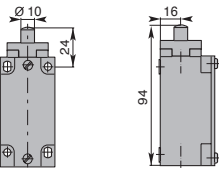
CE 41



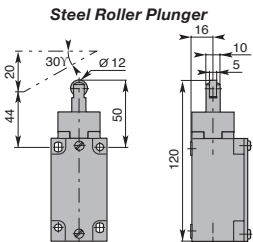
SPECIFICATION	
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	IP65 PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE41.00.AM	CE41.00.AP	Plain Plunger	0.5ms ⁻¹	30N/45N
CE41.00.BM	CE41.00.BP	Steel Roller Plunger	0.3ms ⁻¹	22N/40N
CE41.00.HM	CE41.00.HP	Adjustable Rod Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE41.00.GM	CE41.00.GP	Adjustable Rod Lever	1.3ms ⁻¹	0.15Nm/0.30Nm
CE41.00.EM	CE41.00.EP	Roller Lever Nylon	1.5ms ⁻¹	0.15Nm/0.30Nm
CE41.00.EM/50	CE41.00.EP/50	Rubber Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE41.00.TM	CE41.00.TP	Pull Action with Ring	0.5ms ⁻¹	25N/-
CE41.00.FM	CE41.00.FP	Adjustable Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE41.00.FM/50	CE41.00.FP/50	Adjustable Rubber Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE41.00.KM	CE41.00.KP	One way Roller	1.5ms ⁻¹	12N/40N
CE41.00.LSM	CE41.00.LSP	Stainless Steel Spring	1.0ms ⁻¹	0.18Nm/-
CE41.00.LM	CE41.00.LP	Stainless Steel Spring Multi-Directional	1.0ms ⁻¹	0.18Nm/-

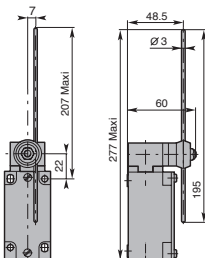
Plain Plunger



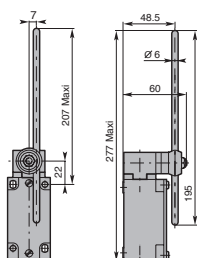
Steel Roller Plunger



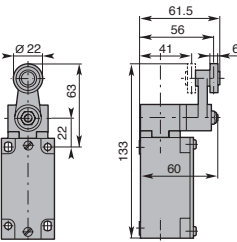
Adjustable Rod Lever



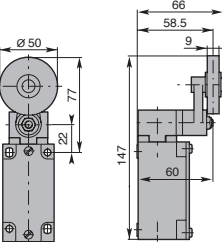
Adjustable Rod Lever



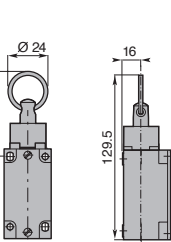
Roller Lever Nylon



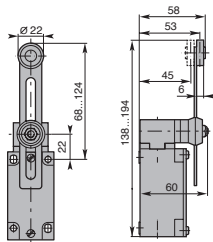
Rubber Roller Lever



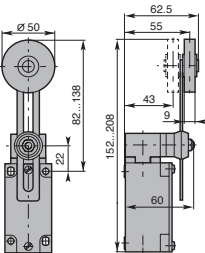
Pull Action with Ring



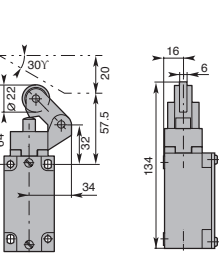
Adjustable Roller Lever



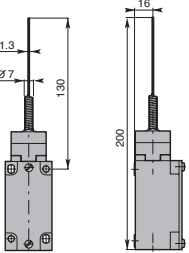
Adjustable Rubber Roller Lever



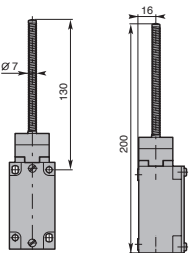
One way Roller



Stainless Steel Spring



Stainless Steel Spring Multi-Directional



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LIMIT & SAFETY SWITCHES

50mm Wide IP65 Limit Switches

- 50mm width
- IP65 double insulated plastic
- Snap action contacts
- Other types available
-  approved

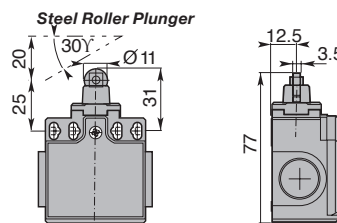
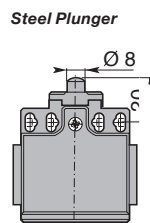
CE 20



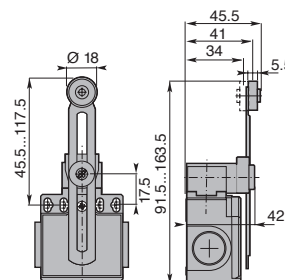
SPECIFICATION

Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

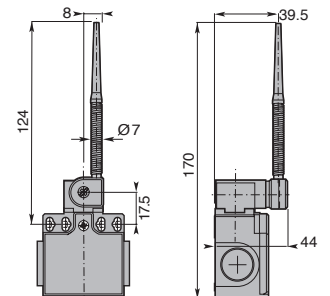
IP65 PLASTIC CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE20.00.AP	Steel Plunger	0.5ms ⁻¹	15N/30N
CE20.00.BP	Steel Roller Plunger	0.3ms ⁻¹	12N/30N
CE20.00.FP	Adjustable Nylon Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE20.00.HLTP	Nylon Actuator with Stainless Steel Spring	1.5ms ⁻¹	0.10Nm/-
CE20.00.TP	Pull Action with Ring	0.5ms ⁻¹	0.30Nm/-
CE20.00.EP	Nylon Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE20.00.HP	Adjustable Stainless Steel Rod Lever	1.5ms ⁻¹	0.15Nm/-0/30Nm
CE20.00.IP	Nylon Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE20.00.FRP/50	Adjustable Lever with Adjustable Rubber Roller	1.5ms ⁻¹	0.10Nm/0.32Nm
CE20.00.CP	Plastic Roller	1.0ms ⁻¹	7N/24N
CE20.00.DP	Plastic Roller on Metal Plunger	1.0ms ⁻¹	7N/24N
CE20.00.EP/50	Rubber Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm



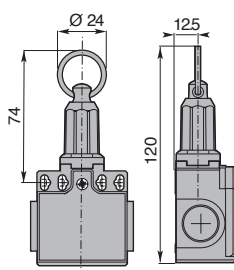
Adjustable Nylon Roller Lever



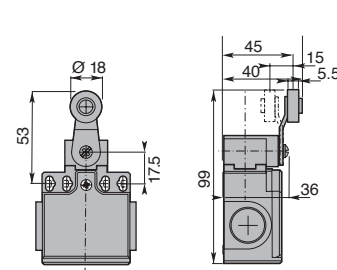
Nylon Actuator with Stainless Steel Spring



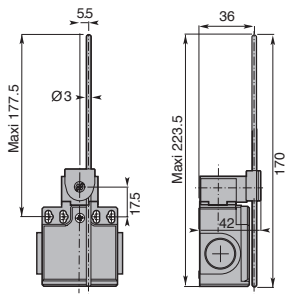
Pull Action with Ring



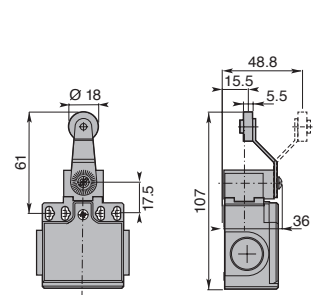
Nylon Roller Lever



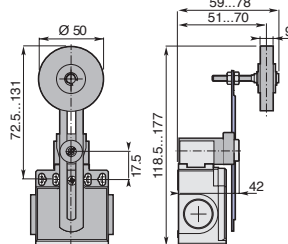
Adjustable Stainless Steel Rod Lever



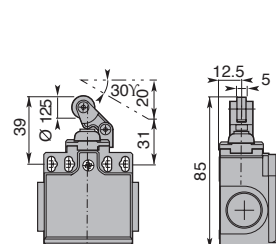
Nylon Roller Lever



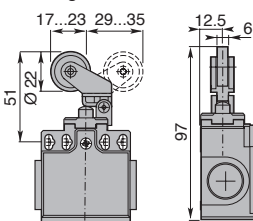
Adjustable Lever with Adjustable Rubber Roller



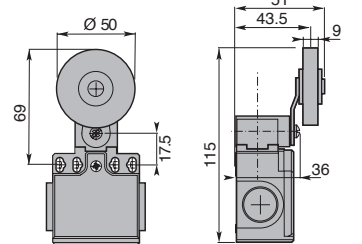
Plastic Roller



Plastic Roller on Metal Plunger



Rubber Roller Lever



LIMIT & SAFETY SWITCHES

50mm Wide IP66 Limit Switches

- 50mm width
- IP66 metal casing
- Snap action contacts
- Other types available
-   approved

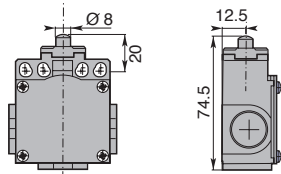
CE 21



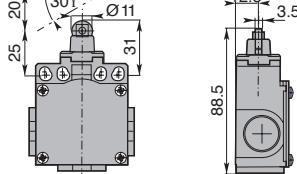
SPECIFICATION	
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE21.00.AM	Plain Plunger	0.5ms ⁻¹	15N/30N
CE21.00.BM	Steel Roller Plunger	0.3ms ⁻¹	12N/30N
CE21.00.HM	Adjustable Rod Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.GM	Adjustable Rod Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.EM	Nylon Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.EM/50	Rubber Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.FM	Adjustable Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.FM/50	Adjustable Rubber Roller Lever	1.5ms ⁻¹	0.10Nm/0.32Nm
CE21.00.HLTM	Nylon Actuator with Stainless Steel Spring	1.5ms ⁻¹	0.10Nm/-
CE21.00.FRM/50	Adjustable Lever with Adjustable Rubber Roller	1.0ms ⁻¹	0.10Nm/-
CE21.00.IM	Nylon Roller Lever	1.0ms ⁻¹	0.10Nm/0.32Nm

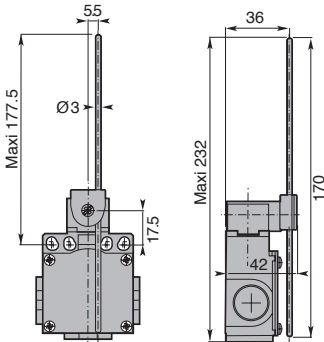
Plain Plunger



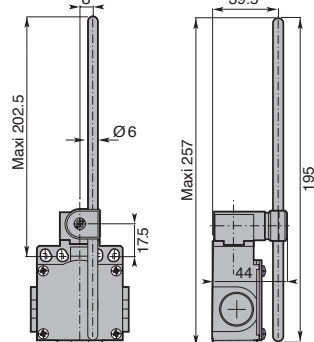
Steel Roller Plunger



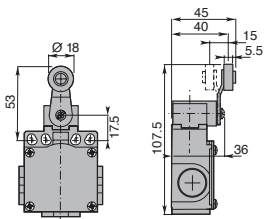
Adjustable Rod Lever



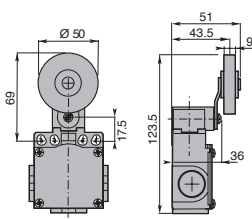
Adjustable Rod Lever



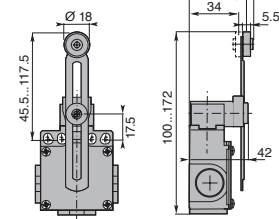
Nylon Roller Lever



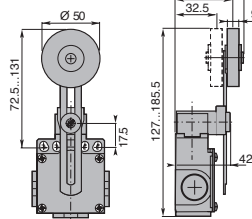
Rubber Roller Lever



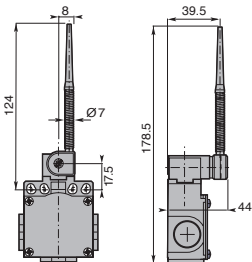
Adjustable Roller Lever



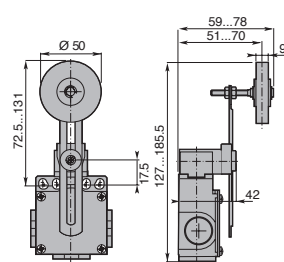
Adjustable Rubber Roller Lever



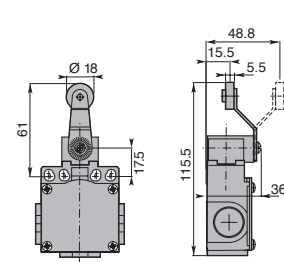
Nylon Actuator with Stainless Steel Spring



Adjustable Lever with Adjustable Rubber Roller



Nylon Roller Lever



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LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

LIMIT & SAFETY SWITCHES

60mm Wide Limit Switches

- 60mm width
- IP66 metal casing
- Snap action contacts
- Other types available
-  approved

CE 31

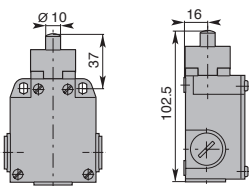


SPECIFICATION

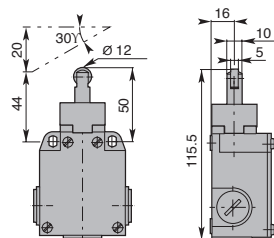
Rating	500V
Shock withstand	50g
Impulse withstand voltage	6kV
Working temperture	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	10A gG fuse

IP66 METAL CASING	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/ NC OPERATION
CE31.00.AM	Plain Plunger	0.5ms ⁻¹	30N/45N
CE31.00.BM	Steel Roller Plunger	0.5ms ⁻¹	22N/40N
CE31.00.CM	Side Roller Lever	1.5ms ⁻¹	12N/30N
CE31.00.HM	Adjustable Rod Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE31.00.GM	Adjustable Rod Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE31.00.EM	Nylon Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE31.00.EM/50	Rubber Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE31.00.FM	Adjustable Roller Lever	1.5ms ⁻¹	0.15Nm/0.30Nm
CE31.00.FM/50	Adjustable Roller Lever	1.5ms ⁻¹	0.15Nm/0.32Nm
CE31.00.LBM/90	Stainless Steel Lateral Pluger with Vertical Roller	1.5ms ⁻¹	30N/50N
CE31.00.LAM	Stainless Steel Lateral Plain Pluger	0.5ms ⁻¹	30N/50N
CE31.00.LM	Stainless Steel Spring Multidirectional Acuator	1.0ms ⁻¹	0.18N/-

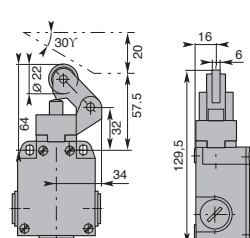
Plain Plunger



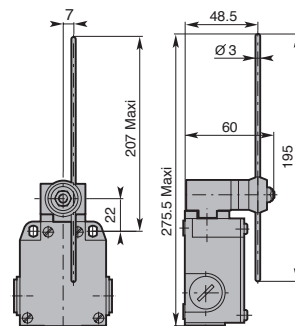
Steel Roller Plunger



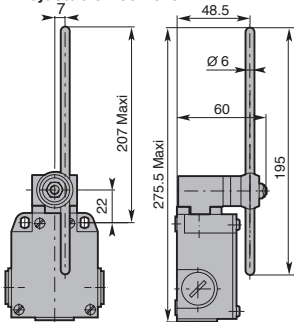
Side Roller Lever



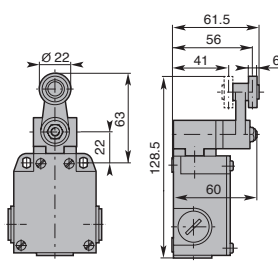
Adjustable Rod Lever



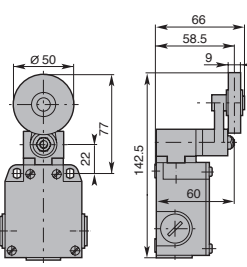
Adjustable Rod Lever



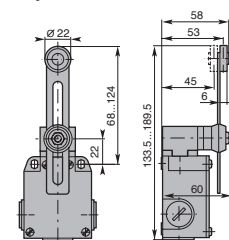
Nylon Roller Lever



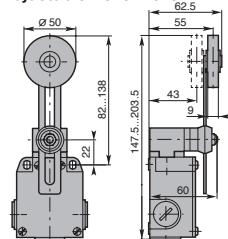
Rubber Roller Lever



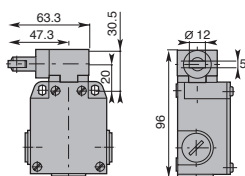
Adjustable Roller Lever



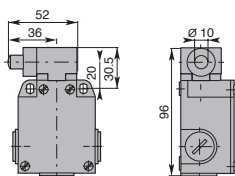
Adjustable Roller Lever



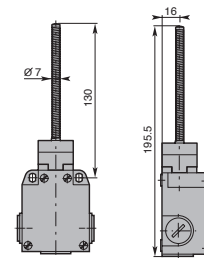
Stainless Steel Lateral Pluger with Vertical Roller



Stainless Steel Lateral Plain Pluger



Stainless Steel Spring Multidirectional Actuator



30mm Wide Pre-wired Limit Switches

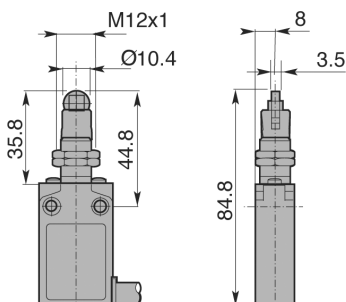
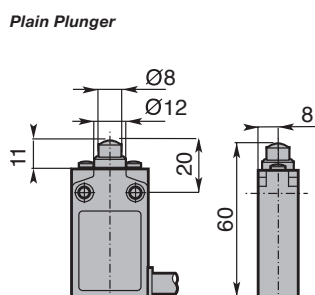
- CE 70



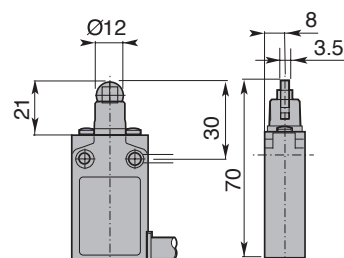
Rating	400V
Cable	PVC 1m 4x0.75mm ²
Impulse withstand voltage	4kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	6A aG fuse

Roller Plunger With Fixing Nut

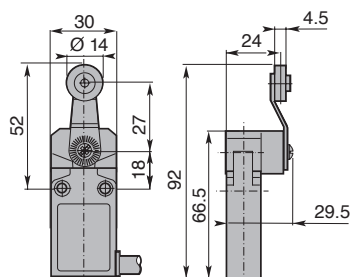
Plain Plunger



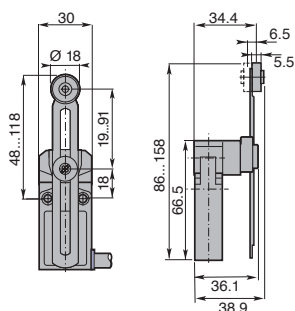
Roller Plunger



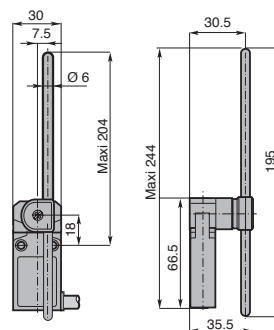
Roller Lever



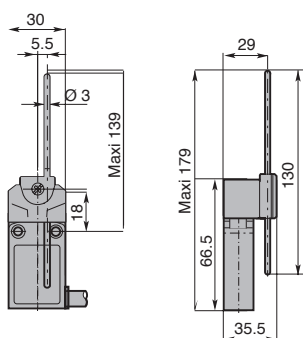
Adjustable Nylon Roller Lever



Adjustable Rod Lever



Adjustable Rod Lever



LIMIT & SAFETY SWITCHES

35mm Wide Pre-wired Limit Switches

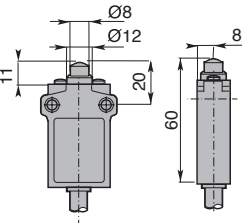
- 35mm width
- Pre wired
- Metal casing
- IP67
- Snap action contacts
- Other types available
-  us, approved



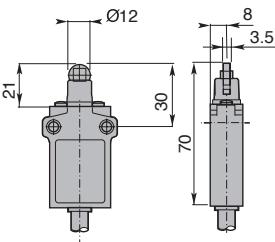
SPECIFICATION	
Rating	400V
Cable	PVC 1m 4x0.75mm ²
Impulse withstand voltage	4kV
Working temperature	-25°C to +70°C
Switching frequency	3600 cycles/h
Load factor	0.5
Short circuit protection	6A gG fuse

TYPE NO.	PLUNGER TYPE	MAX ACTUATION SPEED	ACTUATION/NC OPERATION
CE60.00.AM	Plain Plunger	0.5ms ⁻¹	15N/30N
CE60.00.BM	Roller Plunger	0.1ms ⁻¹	10N/30N
CE60.00.EM	Roller Lever	1.5ms ⁻¹	0.08Nm/0.28Nm
CE60.00.FM	Adjustable Nylon Roller Lever	1.5ms ⁻¹	0.08Nm/0.28Nm
CE60.00.GM	Adjustable Rod Lever	1.5ms ⁻¹	0.08Nm/0.28Nm
CE60.00.HM	Adjustable Rod Lever	1.5ms ⁻¹	0.08Nm/0.28Nm

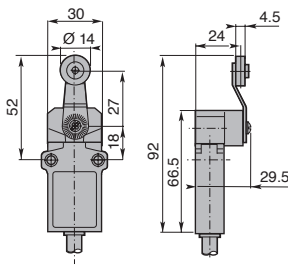
Plain Plunger



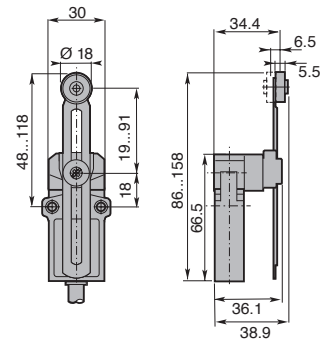
Roller Plunger



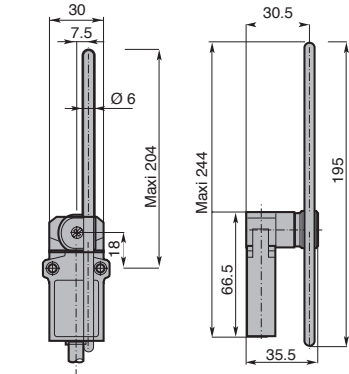
Roller Lever



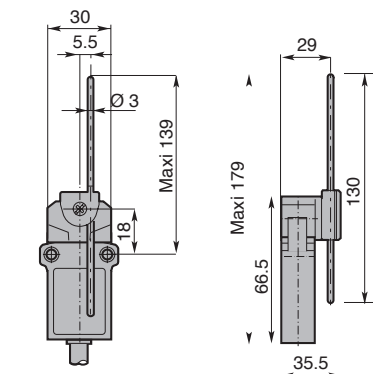
Adjustable Nylon Roller Lever



Adjustable Rod Lever



Adjustable Rod Lever

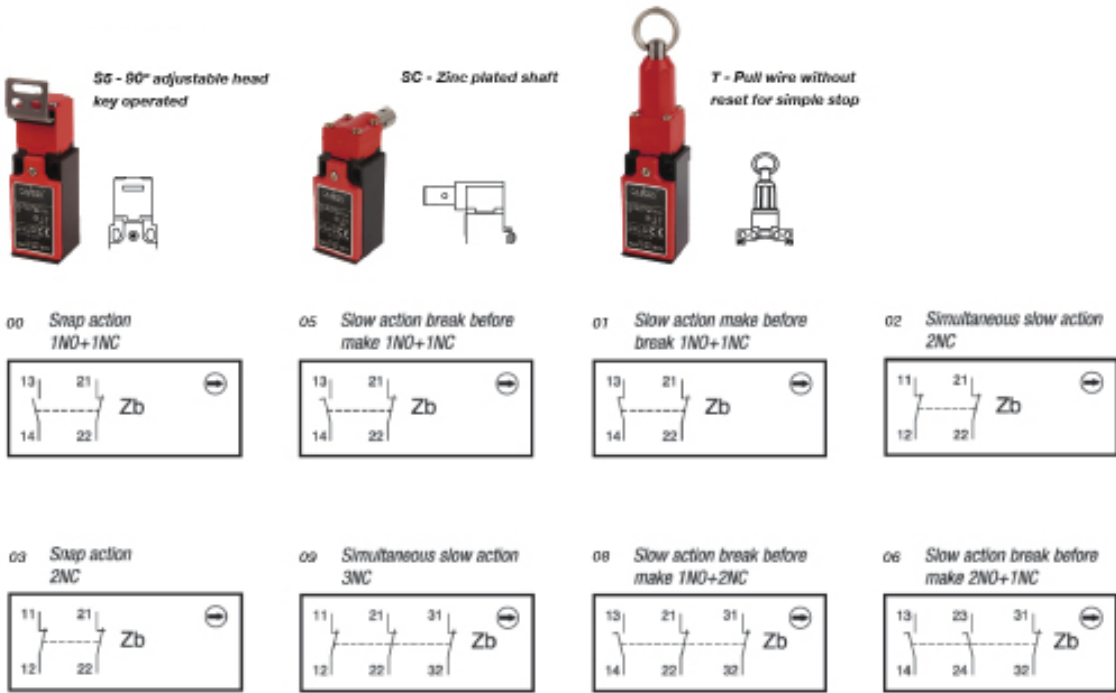


LIMIT & SAFETY SWITCHES

Safety Limit Switches

- Visible operation electromechanical limit safety switch
- High switch current
- Precise operating points
- Snap action, slow action, break and make before break, simultaneous action contact block options
- 1, 2 & 3 cable inlet options
- Polymeric IP65 and metal IP66 casing
- PG13.5 inlet as standard
- M20x1.5 inlet available to order

SPECIFICATION	
Rating	10A/24VAC, 1A/230VAC-3, 9A/380VAC-1 8A/24VDC-2, 0.27A/250VDC
Insulation voltage	690V CE10-M & CE21-M 400V
Impulse withstand voltage	6kV
Operating temperature	-25°C to +70°C
Short circuit protection	Fuse 10A type gG



30mm Polymeric Casing 1 Cable Inlet IP65

TYPE NO.	CONTACT HEIGHT
CE10.00.S5P	00
CE10.05.S5P	05
CE10.01.S5P	01
CE10.02.S5P	02
CE10.03.S5P	03

TYPE NO.	CONTACT HEIGHT
CE10.00.SCP	00
CE10.05.SCP	05
CE10.01.SCP	01
CE10.02.SCP	02
SC10.03.SCP	03

TYPE NO.	CONTACT HEIGHT
CE10.00.TB	00
CE10.05.TB	05
CE10.01.TB	01
CE10.02.TB	02
CE10.03.TB	03



30mm Metal Casing 1 Cable Inlet IP66

TYPE NO.	CONTACT HEIGHT
CE10.00.S5M	00
CE10.05.S5M	05
CE10.01.S5M	01
CE10.02.S5M	02
CE10.03.S5M	03

TYPE NO.	CONTACT HEIGHT
CE10.00.SCM	00
CE10.05.SCM	05
CE10.01.SCM	01
CE10.02.SCM	02
CE10.03.SCM	03

TYPE NO.	CONTACT HEIGHT
CE10.00.TM	00
CE10.05.TM	05
CE10.01.TM	01
CE10.02.TM	02
CE10.03.TM	03



LIMIT & SAFETY SWITCHES

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TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

40mm Polymeric Casing 1 Cable Inlet IP65 S5

TYPE NO.	CONTACT HEIGHT
CE41.00.S5P	00
CE41.05.S5P	05
CE41.01.S5P	01
CE41.02.S5P	02
CE41.03.S5P	03
CE41.09.S5P	09
CE41.08.S5P	08
CE41.06.S5P	06



40mm Metal Casing 1 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE41.00.S5M	00
CE41.05.S5M	05
CE41.01.S5M	01
CE41.02.S5M	02
CE41.03.S5M	03
CE41.09.S5M	09
CE41.08.S5M	08
CE41.06.S5M	06

T

TYPE NO.	CONTACT HEIGHT
CE41.00.TM	00
CE41.05.TM	05
CE41.01.TM	01
CE41.02.TM	02
CE41.03.TM	03
CE41.09.TM	09
CE41.08.TM	08
CE41.06.TM	06



50mm Polymeric Casing 3 Cable Inlet IP65 S5

TYPE NO.	CONTACT HEIGHT
CE20.00.S5P	00
CE20.05.S5P	05
CE20.01.S5P	01
CE20.02.S5P	02
CE20.03.S5P	03

SC

TYPE NO.	CONTACT HEIGHT
CE20.00.SCP	00
CE20.05.SCP	05
CE20.01.SCP	01
CE20.02.SCP	02
CE20.03.SCP	03

T

TYPE NO.	CONTACT HEIGHT
CE20.00.TB	00
CE20.05.TB	05
CE20.01.TB	01
CE20.02.TB	02
CE20.03.TB	03



50mm Metal Casing 3 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE21.00.S5M	00
CE21.05.S5M	05
CE21.01.S5M	01
CE21.02.S5M	02
CE21.03.S5M	03

SC

TYPE NO.	CONTACT HEIGHT
CE21.00.SCM	00
CE21.05.SCM	05
CE21.01.SCM	01
CE21.02.SCM	02
CE21.03.SCM	03

T

TYPE NO.	CONTACT HEIGHT
CE21.00.TM	00
CE21.05.TM	05
CE21.01.TM	01
CE21.02.TM	02
CE21.03.TM	03



60mm Metal Casing 1 Cable Inlet IP66 S5

TYPE NO.	CONTACT HEIGHT
CE31.00.S5M	00
CE31.05.S5M	05
CE31.01.S5M	01
CE31.02.S5M	02
CE31.03.S5M	03
CE31.09.S5M	09
CE31.08.S5M	08
CE31.06.S5M	06

T

TYPE NO.	CONTACT HEIGHT
CE31.00.TM	00
CE31.05.TM	05
CE31.01.TM	01
CE31.02.TM	02
CE31.03.TM	03
CE31.09.TM	09
CE31.08.TM	08
CE31.06.TM	06



22mm DIAMETER CONTROL SWITCHES

Flush Push Buttons
On/Off Push Button
Arrow Buttons
Start/Stop Push Button

40mm E-Stop

60mm E-Stop
Selector Switch
Mounting Plate
Contact Block
Dust Cap
Keys for E-Stop Release
Button Surrounds

Start/Stop
On/Off
Key Release
Twist Release
Twist Release

CCTTR3 p153
CCTTRO p153
CCTTRA p153
CCTTRS p154
CCTTRO p154
CCTTM41L p154
CCTTM40L p154
CCTTM60L p154
CCTTSS p154
CCTTP p155
CCTTC p155
CCTTRDC p155
CCTTK p155
CCTTB p155

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LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL PRODUCTS

CONTROL STATIONS

Standard Boxes
Single Button 51mm High
74mm High
Two Button 51mm High
74mm High
Three Button 51mm High
74mm High
Four Button 51mm High
74mm High
Five Button 74mm High
Six Button 74mm High
Mounting Plate

CCS-00 p156
CCSS00-01 p156
CCSS00-01 p156
CCSS05-02 p156
CCSS06-02 p156
CCSS07-03 p156
CCSS08-03 p156
CCSS09-04 p156
CCSS10-04 p156
CCSS11-05 p156
CCSS11-06 p156
CCSP p157

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

HEAVY DUTY FOOTSWITCHES

Guarded
Unguarded

CFSH p158
CFUH p158

BATTERIES

IP66 CONTROL STATIONS

One Hole
Two Holes
Three Holes

SC1A p159
SC2A p159
SC3A p159

TRANS-
FORMERS

PIEZO SWITCHES

26mm Plastic RGB LED Illuminated
18mm Actuator Non-Illuminated
Point Illuminated

Exit Switch
3x4 Stand Alone Access Control Keypad
Piezo Keypads

Anti-Vandal Proximity Reader
2x6 Illuminated Keypad and HID Proximity Reader

CPS22IF-PLWH p160
CPS16NF p161
CPS22IF-AINA p162
CPS22IR-AINA p162
CPA-EXIT-SW p163
CPA-ST-ALN p164
CPKBA p165
CPKBF p165
CPA-PRX-RDR p166
CPA-KPD-RDR p167



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CONTROL PRODUCTS

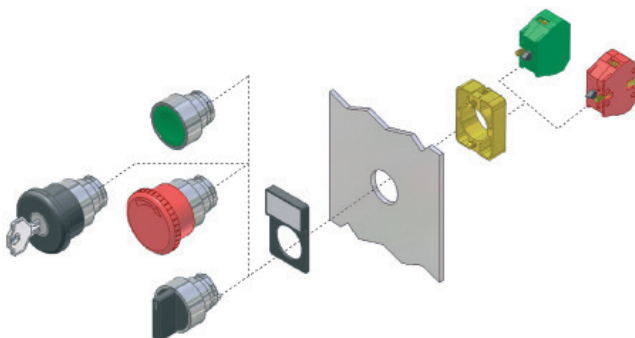
22mm Diameter Control Switches

- Metal and plastic bodied control Push-Buttons, E-stops & selector switches
- Rated 660V, 10A max AC
- Operating frequency 3,600 per hour
- Panels mount 1-6mm thick
- Positive opening operation

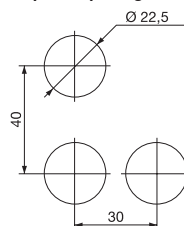
- Conform to IEC 947-5-1 & EN 60947-5-1
- Terminal marking to EN 50013
- Other button options available to order
-  approved

SPECIFICATION

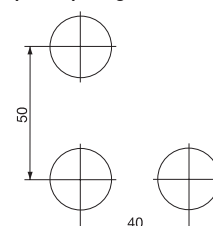
Rated voltage	660V	
Rated AC current	24V	10A
	240V	6A
	400V	4A
Rated DC current	24V	2.8A
	125V	0.55A
	250V	0.27A
Short circuit protection	gG fuse	
Impulse withstand	6kV	
Internal resistance	<25mΩ	
Wire acceptance	0.75-2.5mm ²	
Rated temperature	Operating	-25° to +70°
	Storage	-40° to +80°
Body / escutcheon	Metal	Chromium plated
	Plastic	Fibreglass reinforced thermo-plastic
Electrical Protection	Metal	Class I
	Plastic	Class II
Ingress Protection	IP65	
Life	1x10 ⁶ operation	



230V & same polarity panel spacing

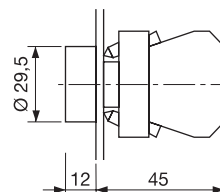


400V & different polarity panel spacing



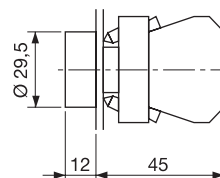
Flush Push Buttons

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTR30BK	CCTPR30BK	Black
CCTTR30RD	CCTPR30RD	Red
CCTTR30GW	CCTPR30GW	Green
CCTTR30YW	CCTPR30YW	Yellow
CCTTR30BL	CCTPR30BL	Blue
CCTTR30WH	CCTPR30WH	White



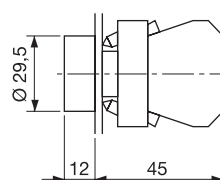
On/Off Push Buttons

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTR00RD	CCTPR00RD	Red -0
CCTTR01GN	CCTPR01GN	Green -1



Arrow Push Buttons

METAL BODIED	PLASTIC BODIED	STYLE
CCTTRAHBK	-	Horizontal
CCTTRA VBK	-	Vertical

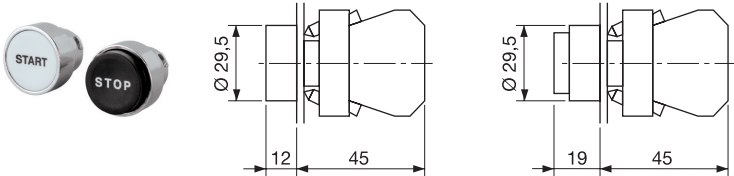


CONTROL PRODUCTS

Start/Stop Push Buttons

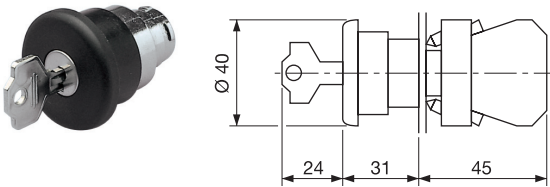
METAL BODIED	PLASTIC BODIED	STYLE
CCTTRSTWH	-	White Start
CCTTRSPBK	-	Black Stop
CCTTRONWH	-	White On
CCTTROFBK	-	Black Off

Black Button - Extended Height



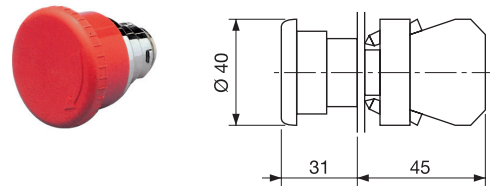
40mm E-stop Key Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM41LB	CCTPM41LB	Black
CCTTM41LR	CCTPM41LR	Red



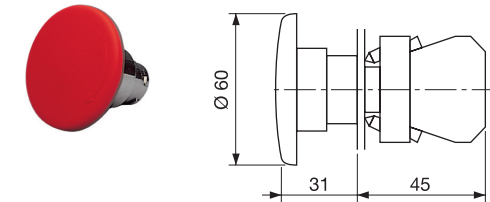
40mm E-stop Twist Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM40LB	CCTPM40LB	Black
CCTTM40LR	CCTPM40LR	Red



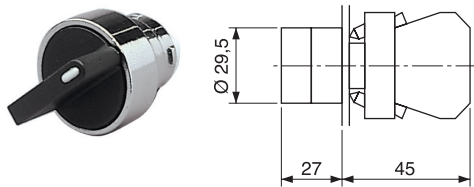
60mm E-stop Twist Release

METAL BODIED	PLASTIC BODIED	COLOUR
CCTTM60LB	CCTPM60LB	Black
CCTTM60LR	CCTPM60LR	Red



Selector Switch

- Black short lever, 2 and 3 position selector switch
- Maintain & spring return options



METAL BODIED	PLASTIC BODIED	POSITIONS	STYLE
CCTTSS211	CCTPSS211	2	Maintained left & right
CCTTSS210	CCTPSS210	2	Return left
CCTTSS311	CCTPSS311	3	Maintained left, centre & right
CCTTSS300	CCTPSS300	3	Return to centre from left & right
CCTTSS301	CCTPSS301	3	Return to centre from left, maintained right
CCTTSS310	CCTPSS310	3	Return to centre from right, maintained left

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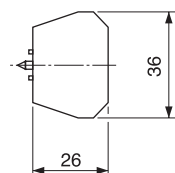
BATTERIES

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CONTROL PRODUCTS

Contact Block

- NO and NC contact blocks
- Screw fixed to mounting plate
- Can be stacked side by side/piggybacked



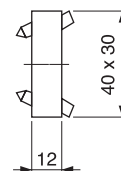
TYPE NO.	DESCRIPTION
CCTTC1R	Red NC
CCTTC0G	Green NO

Mounting Plate

- Mounting plate for contact blocks
- Holds 1 or 2 NO or NC contact blocks
- Metal plate must be used with metal switches
- Plastic to be used with plastic



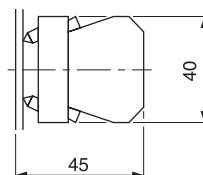
TYPE NO.	DESCRIPTION
CCTTP	Metal Mounting plate
CCTTPP	Plastic Mounting Plate



Contact Block with Mounting Plate

- Control blocks and mountings plates as above supplied as one assembly
- Plastic plate must be used with plastic switches
- Metal to be used with metal

TYPE NO.	DESCRIPTION
CC10B	Green NO contact + metal base
CC01B	Red NC contact + metal base
CC10B/P	Green NO contact + plastic base
CC01B/P	Red NC contact + plastic base



Dust Cap

- Clear Silicon protection cap for push buttons
- Other colours to order



TYPE NO.	DESCRIPTION
CCTTRDCCL	Clear dust cap

Keys for E-Stop Key Release

TYPE NO.	SLEEVE
CCTTKRD	Red
CCTTKBK	Black



Button Surrounds

- Yellow engraved black emergency stop
- Black name plate with recessed label area

TYPE NO.	DESCRIPTION
CCTTBES	60mm diameter e-stop
CCTTBNP	Name plate blank



CONTROL PRODUCTS

Electrical Enclosures

- IP65 ABS enclosures suitable for control switches and equipment
- Grey and Yellow lid colour options
- Standard boxes and holes moulded in for 22mm diameter control switches
- Diameter 21mm (PG13.5) knockouts moulded in enclosure
- Pre assembled control station and control switching available to order
- Larger sizes to order
- Yellow lit to order from 2-6 button

SPECIFICATION		
Material		ABS
Protection class		IP65
Rated temperature	Operating	-25° to +70°
	Storage	-40° to +80°
Standard colours	Box & lid	Grey RAL 7035
	lid	Yellow RAL 1103

Standard Boxes

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS00GY00	Grey	70mm	70mm	51mm
CCS03GY00	Grey	70mm	70mm	74mm
CCS05GY00	Grey	105mm	70mm	51mm
CCS06GY00	Grey	105mm	70mm	74mm
CCS07GY00	Grey	140mm	70mm	51mm
CCS08GY00	Grey	140mm	70mm	74mm
CCS09GY00	Grey	185mm	70mm	51mm
CCS10GY00	Grey	185mm	70mm	74mm



Single Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS00GY01	Grey	70mm	70mm	51mm
CCS00YW01	Yellow	70mm	70mm	51mm
CCS03GY01	Grey	70mm	70mm	74mm
CCS03YW01	Yellow	70mm	70mm	74mm



Two Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS05GY02	Grey	105mm	70mm	51mm
CCS06GY02	Grey	105mm	70mm	74mm



Three Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS07GY03	Grey	140mm	70mm	51mm
CCS08GY03	Grey	140mm	70mm	74mm



Four Button

TYPE NO.	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS09GY04	Grey	185mm	70mm	51mm
CCS10GY04	Grey	185mm	70mm	74mm



Five & Six Button

TYPE NO.	BUTTONS	LID COLOUR	LEGNTH	WIDTH	HEIGHT
CCS11GY05	5	Grey	225mm	70mm	74mm
CCS11GY06	6	Grey	225mm	70mm	74mm



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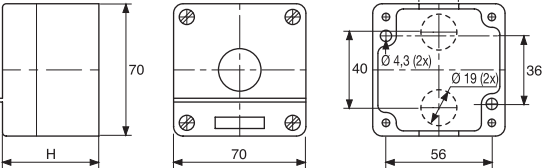
Mounting Plates

TYPE NO.	BUTTONS
CCSP01	1
CCSP02	2
CCSP03	3
CCSP04	4
CCSP05	5

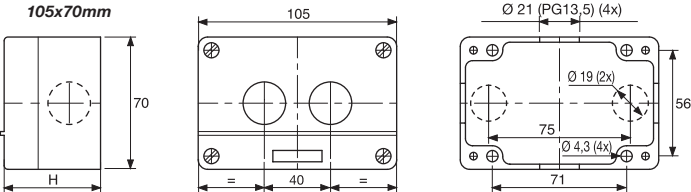
for 6 button use 2x CCSP03



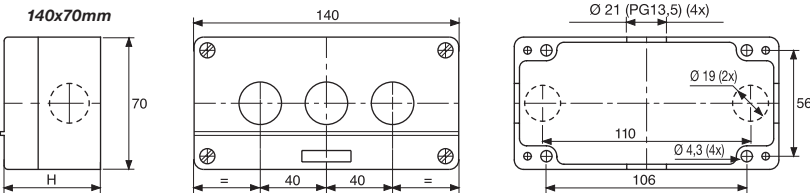
70x70mm



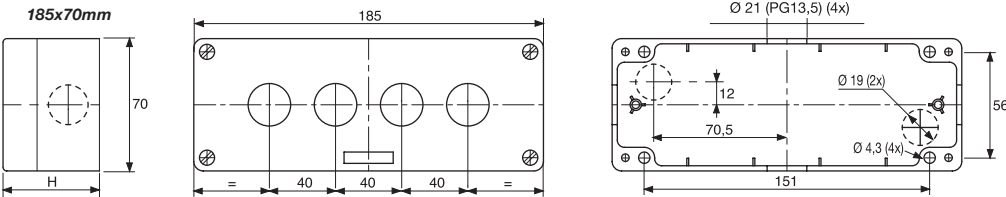
105x70mm



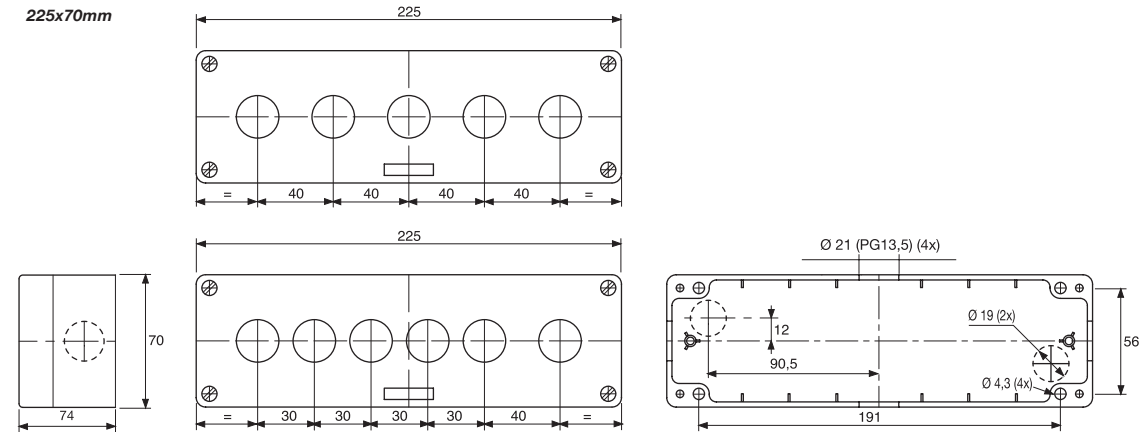
140x70mm



185x70mm



225x70mm



CONTROL PRODUCTS

Heavy Duty Footswitch

- Industrial die-cast footswitch for heavy duty applications
- Snap action and slow action contact blocks
- 1 NO + 1 NC
- Rising saddle-washer terminal connections
- Single or double-pole contact blocks
- Positive opening operation
- Silver contacts
- Anti-Slip foot pedal
- Non-slip rubber feet
- Supplied with cable gland
- IP65 Sealed
- CE approved

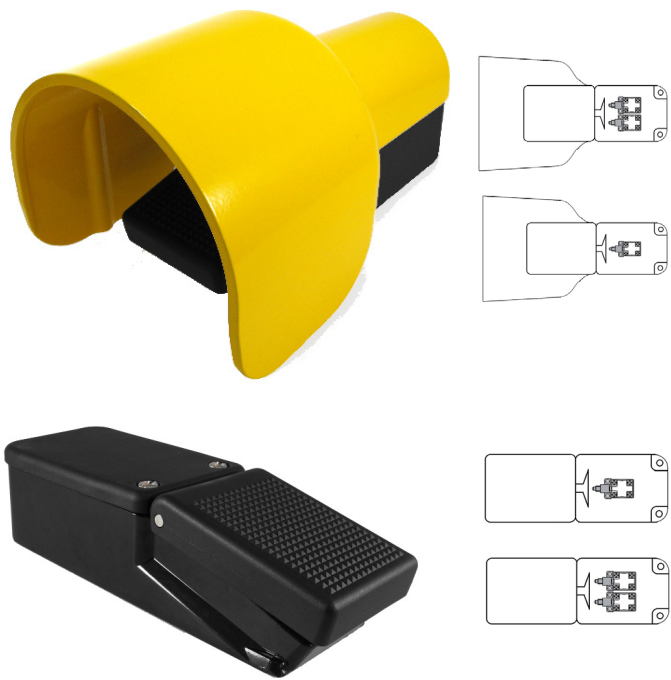
Guarded

PART NO.	DESCRIPTION
CFSHC1	Guarded 1 snap action contact block
CFSHC2	Guarded 1 slow action contact block
CFSHC1C1	Guarded 2 snap action contact blocks
CFSHC2C2	Guarded 2 slow action contact blocks
CFSHC1C2	Guarded 1 snap and 1 slow action contact blocks

Unguarded

PART NO.	DESCRIPTION
CFUHC1	Unguarded 1 snap action contact block
CFUHC2	Unguarded 1 slow action contact block
CFUHC1C1	Unguarded 2 snap action contact blocks
CFUHC2C2	Unguarded 2 slow action contact blocks
CFUHC1C2	Unguarded 1 snap and 1 slow action contact blocks

SPECIFICATIONS			
Contact Block Rated	10A		
Insulation voltage (Ui)	500VAC 600VDC		
Utilisation Categories			
Q300	69VA, 125-250VDC		
A600	720VA, 120-600VAC		
Protection against short circuits	fuse 10A 500V type aM		
Alternate current: AC15 (50-60Hz)			
Ui (V)	250	400	500
Ie (A)	6	4	1
Direct current: DC13			
Ue (V)	24	125	250
Ie (A)	6	1.1	0.4
Connectors flexible wire sizes	min	1 x 0.5 mm² (1 x AWG 20)	
	max	2 x 2.5mm² (2 x AWG 14)	
Actuating force	single snap action	10N	
	single slow action	12N	
	double snap action	13N	
	double slow action	15N	
Ambient temperature	from -25°C to +80°C		
Weight			
guarded	1.4 kg		
Unguarded	0.55 kg		



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CONTROL PRODUCTS

IP66 Control Station Enclosures

ABS enclosures pre-drilled with 22mm holes for the mounting of pushbutton switches.

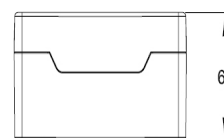
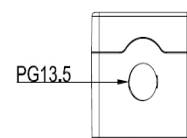
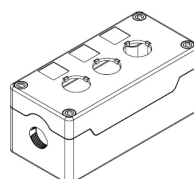
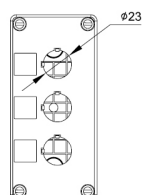
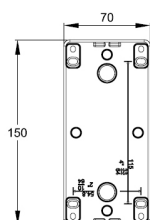
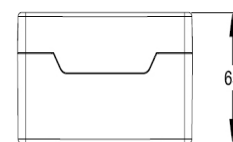
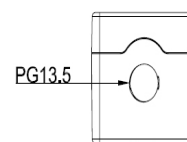
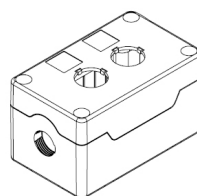
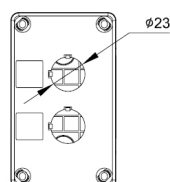
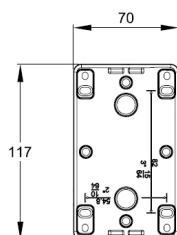
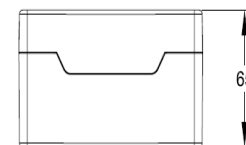
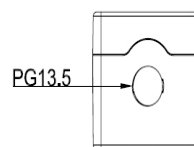
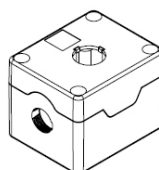
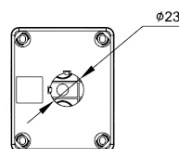
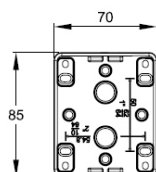
- IP66 sealed
- 21mm diameter knockouts with PG13.5 thread for cable glands
- Black base with yellow lid
- Wall mountable via secure screws in base/cable tie clamp
- Captive plastic screws

SPECIFICATIONS

Materials	ABS UL94-V0
Protection Class	IP66
Rated Temperature	from -25°C to +70°C
Standard Colours	Lid- Yellow (RAL 1023) Black (RAL 9017)

Empty Enclosures

TYPE NO	HOLES	LID COLOUR	LENGTH	WIDTH	HEIGHT
SC1A	1	Yellow	85	70	65
SC2A	2	Yellow	117	70	65
SC3A	3	Yellow	150	70	65



CONTROL PRODUCTS

Piezo switches, Plastic, RGB LED Illuminated, 26mm

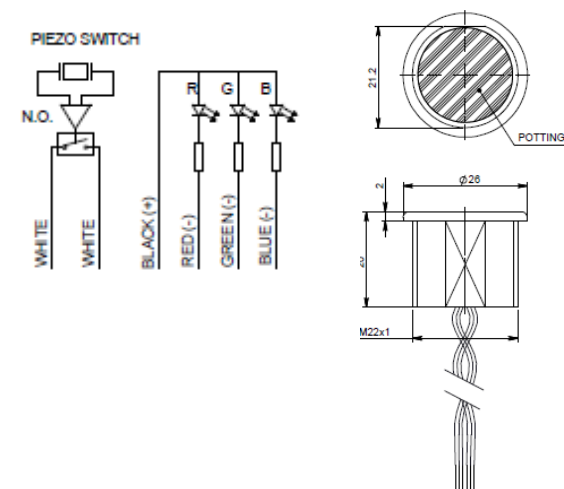
Plastic piezo switches offering rugged, sealed tamper and vandal proof solid state switching. Exceptional durability and reliability. Fitted with red, green and blue LED's for illumination.

- 26mm diameter actuator
- 22.5mm diameter mounting hole
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Recessed face
- Wire termination
- IP68 Sealed
- Available in 12V and 24V LED's

CPS22IF-PLWH-12RGB



PART NO.	LED VOLTAGE
CPS22IF-PLWH-12RGB	12V DC
CPS22IF-PLWH-24RGB	24V DC



SPECIFICATIONS	
Operating voltage:	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -20°C to +70°C
LED Operating voltage	12V DC max OR 24V DC max
LED max current consumption:	(12V) (24V)
Red	18mA 18mA
Green	9mA 9mA
Blue	27mA 16mA
Ingress Protection	IP69
Lifetime	50 million operations
Material	POM

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CONTROL PRODUCTS

Piezo switches, Non-illuminated, 18mm Actuator

Aluminium piezo switches offering rugged, sealed tamper and vandal resistant solid state switching. Exceptional durability and reliability.

- 18mm diameter actuator
- 16mm diameter mounting hole
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Flat faced
- Wire termination
- IP68 Sealed
- Available in three colour finishes

SPECIFICATIONS	
Operating voltage	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Lifetime	50 million operations
'ON' resistance	<20Ω
'OFF' resistance	>5mΩ

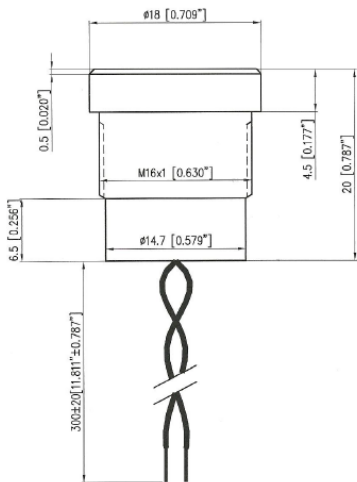
CPS16NF-ALNA



CPS16NF-ALRD



CPS16NF-ALGN



PART NO.	DESCRIPTION
CPS16NF-ALNA	Natural
CPS16NF-ALRD	Red
CPS16NF-ALGN	Green

CONTROL PRODUCTS

Piezo switches, Point Illuminated

Aluminium piezo switches offering rugged, sealed tamper and vandal resistant solid state switching. Exceptional durability and reliability.

- Red/green spot illumination
- 28mm diameter actuator
- 22.5mm diameter mounting hole (PG16)
- Normally open, momentary action
- Make impulse time of 125-300 msec
- Choice of flat and recessed actuator
- Wire termination
- IP68 Sealed

SPECIFICATIONS	
Operating voltage	1-24V AC/DC
Switching current	0.2A max
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Lifetime	50 million operations
'ON' resistance	<20Ω
'OFF' resistance	>5mΩ

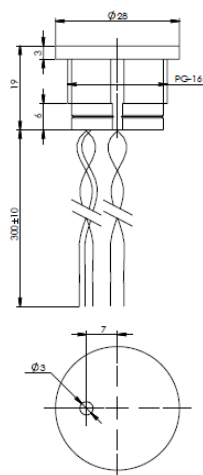
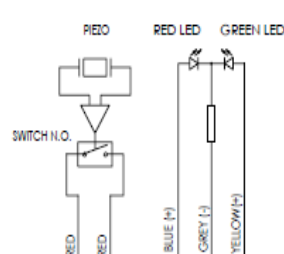
CPS22IF-ALNA-24RG



CPS22IR-ALNA-24RG



PART NO.	DESCRIPTION
CPS22IF-ALNA-24RG	Flush
CPS22IR-ALNA-24RG	Recessed



CONTROL PRODUCTS

Piezo Exit Switch

A vandal proof exit switch for users operating in harsh environment, high traffic areas

- Sealed in a rugged, weatherised stainless steel enclosure
- Vandal resistant, tamper resistant, weather and dust resistant to IP68
- Programmable 'door open' time, 'fail secure/fail safe' option selectable
- Green LED 'relay on' and red LED 'relay off' reversible
- 5 year guarantee

CPA-EXIT-SW

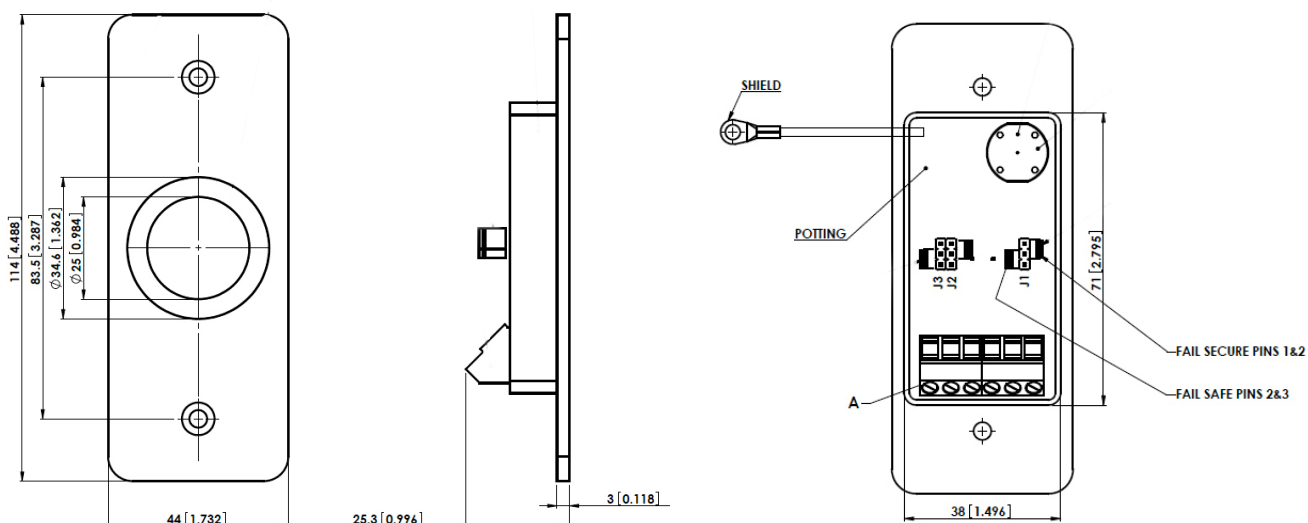


SPECIFICATIONS

Input Voltage	12-24VDC
Switching current	1.5A Max
Actuation force	3-5N
Make impulse time	1 to 60 seconds
Operating temperature	-20°C to 70°C
Storage temperature	-40°C to 85°C
Ingress Protection	IP68
Electrical Lifetime	15 million operations
Current consumption	40mA idle, 80mA active

PART NO. DESCRIPTION

CPA-EXIT-SW	Exit Switch
-------------	-------------



CONTROL PRODUCTS

3x4 Stand Alone Piezo Access Control Keypad

Single door, stand alone, self contained access control keypad using Piezo technology. Rugged, one piece construction.

- Integrated control electronics for management of access codes and door settings
- Integrated LED's and buzzer provide visual and audible feedback
- Vandal, tamper and weather resistant
- Water resistant to IP68
- Up to 200 user codes- 100 million combinations, 4-8 digits

CPA-ST-ALN

SPECIFICATIONS

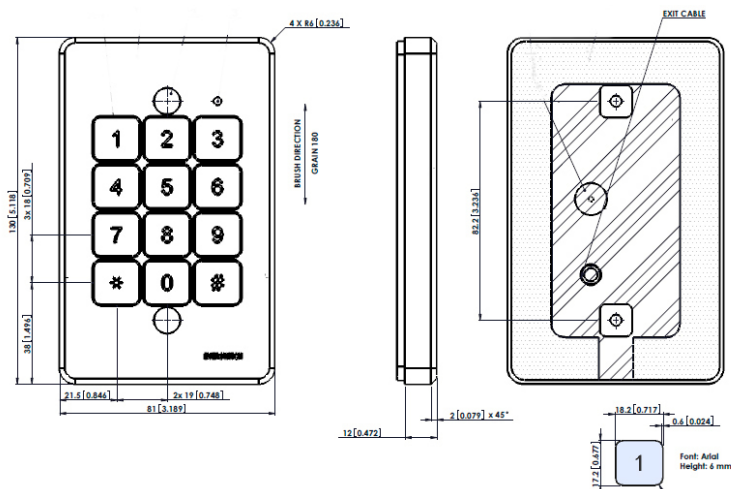
Material	Brushed aluminium
Power supply	8-24V AC/DC
Power consumption	max 150mA
Actuation Force	3-5N
Dimensions	81mm x 130mm
Operating temperature	from -20°C to +75°C
Ingress Protection	IP68

PART NO.

CPA-ST-ALN

DESCRIPTION

Stand alone access control keypad



Colour	Function	Description
Brown	Power Supply	8-24V DC/AC
Blue		
Green	Earth	Connected to Housing
Grey	Relay Common	Nominal Switching Capacity:2A , 30VDC
Red	Default Relay N.O	
White & Pink	Remote Opening Door	Dry Contact Only

CONTROL PRODUCTS

Piezo Keypads

High reliability and durability, ideal for use in tough environments.

- IP68 dust and water resistant, sea-water and detergent resistant
- No moving parts, maintenance free
- Made of one piece of solid aluminium, totally rugged
- Potted switching unit at rear seals against all contamination and prevents freezing

SPECIFICATIONS

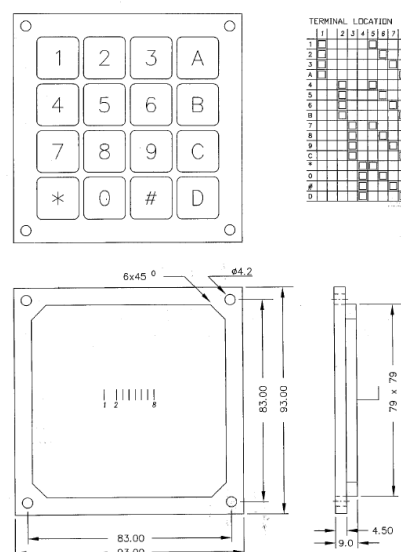
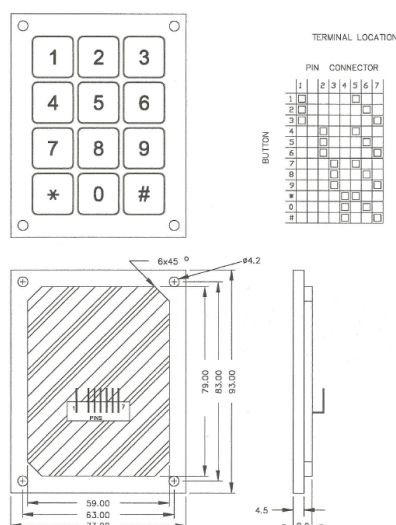
Operating voltage	1-24V DC
Switching current	0.2A max
Insulation resistance (off)	>5mΩ
Initial contact resistance (on)	<7.5Ω
Actuation force	3-5N
Operating temperature	from -40°C to +125°C
Ingress Protection	IP68
Electrical Lifetime	15 million operations

PART NO.	DESCRIPTION
CPKBA11-3X4	3x4 Keys
CPKBF11-4X4	4x4 Keys

CPKBA11-3X4



CPKBF11-4X4

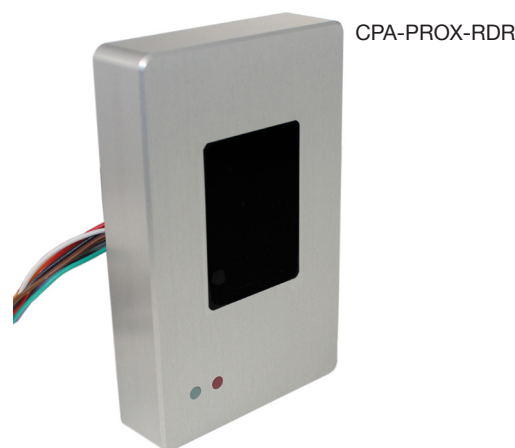


CONTROL PRODUCTS

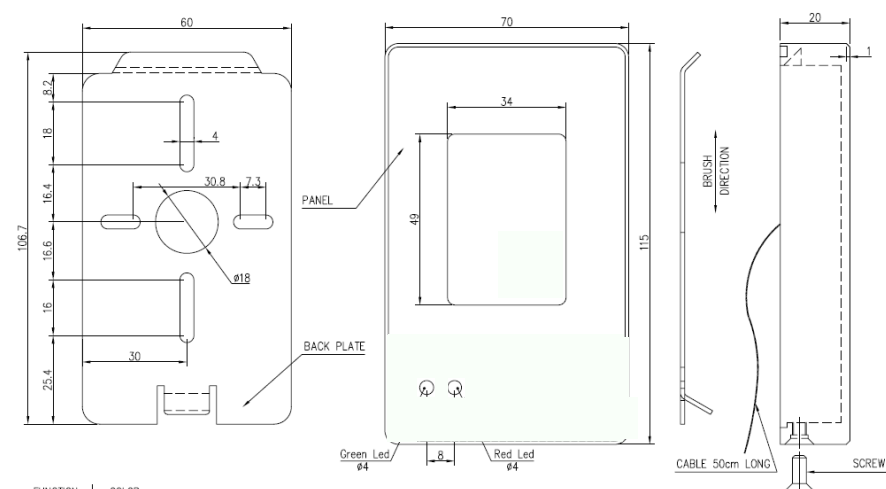
Anti-Vandal Proximity Reader

Anti vandal 125 KHz HID proximity reader providing the ultimate solution for users operating in harsh environment, high traffic areas.

- Sealed in a rugged, weatherised aluminium enclosure
- Vandal, tamper, weather and dust resistant to IP68
- Wiegand output model interfaces with all existing Wiegand protocol access control systems



CPA-PROX-RDR



FUNCTION | COLOR

COLOR	FUNCTION	ELECTRICAL FUNCTION
RED	Input Voltage	8 to 15 VDC
BLACK	Ground	
GREEN	Data 0	Open collector 1Kohm pull-up to internal +5V
WHITE	Data 1	Open collector 1Kohm pull-up to internal +5V
BROWN	LED Input	No Voltage
VIOLET	Housing Ground	
ORANGE	Buffered Input	
GREY	Tamper Output	Open collector 0,100 A "Low" when light sensed

SPECIFICATIONS	
Material	Brushed aluminium
Output formats	Wiegand depending on card
Power supply	8 to 15 VDC
Power consumption	max 150mA
Transmitter/receiver frequency	125KHz HID card age reader
Operating temperature	-20°C to 75°C

PART NO.	DESCRIPTION
CPA-PROX-RDR	HID reader

PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

CONTROL PRODUCTS

Illuminated 2x6 Piezo Keypad and HID Proximity Reader

2x6 Piezo keypad combined with HID Proximity reader. Mortise mounted, the rugged solid state reader offers the ultimate in strength and durability where a reader is required. With solid one-piece brushed aluminium sealed casing, the reader is designed to function independently even in harsh climates or high risk, high traffic environments

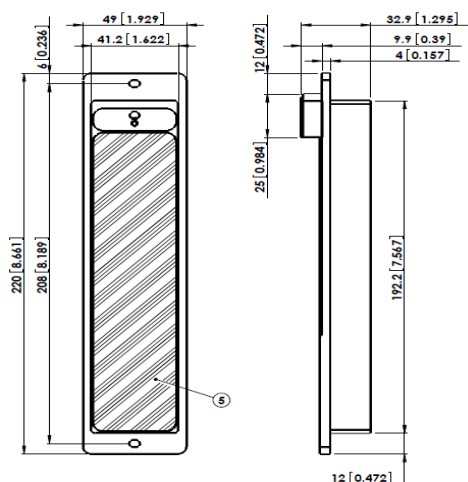
- Vandal, tamper and weather resistant
- Water and dust resistant to IP68
- Up to 250 user codes, 100 million combinations. 4-8 digits

CPA-KPD-RDR



SPECIFICATIONS	
Material	Brushed aluminium
Power supply	8-24VDC
Power consumption	max 150mA
Communication	Wiegand 26/8 Bit
Transmitter/Receiver frequency	125KHz
Operating temperature	-20°C to 65°C
Ingress Protection	IP68

PART NO.	DESCRIPTION
CPA-KPD-RDR	Illuminated Piezo keypad and Reader



INTERFACE MODULES

Relay Modules	1 Pole	CIM/R1	p169
	2,4,8,16 Pole	CIM/R2-16	p169
I.D.C Interface Modules		CIM/00W-IDCS	p170
Subminiature 'D' Connector Modules	Male D	CIM/00W/DMS	p170
	Female D	CIM/00W/DFS	p170
Diode Module and Component Modules	Diode Module	CIM/8W-D10	p171
	Without diode, component carrier	CIM/8W-COMP	p171
Fuse Modules	Screw Terminals	CIM/0W-FU-S	p171
	Pluggable Terminals	CIM/0W-FU-C	p171
Opto-Isolator Interface		CIM/Opto4	p172

INTERFACE MODULES & SUPPORTS

EMPTY INTERFACE SUPPORTS

Mini Series 72mm Empty Modular Interface Supports	CIME/M	p173
Mini Series 72mm Empty Extruded Interface Supports	CIME/M/E	p173
Euro Series 107mm Empty Modular Interface Supports	CIME/E	p175
Euro Series 107mm Empty Extruded Interface Supports	CIME/E/E	p176

USB INTERFACE MODULES

USB A Interface Module 35mm	CIM/USBA	p177
USB B Interface Module 35mm	CIM/USBB	p177

RJ45 INTERFACE MODULES

CIM/RJ45	p178
CIM/RJ45/C	p178

MULTIPLE IDC MODULES

CIM/XXW-IDC	p179
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MALE AND FEMALE D-CONNECTOR INTERFACE MODULES

CIM/XXW-DMFS	p180
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INTERFACE MODULES & SUPPORTS

1 Pole Relay Modules

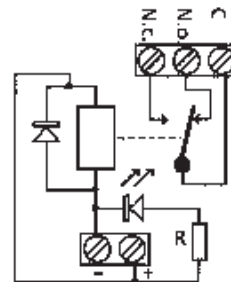
- Fits all standard DIN Rail
- Option on connections: screw terminal blocks or pluggable terminals
- Available with plug-in relay for easy replacement or the economy style with relay mounted directly onto the PCB

CIM/R1



SPECIFICATION

Input operating voltage	24V DC
Operating power	0.5W
Contact configuration	1 changeover
Max switching voltage	250VAC
Max output current	5A
Max switching power	1250VA
Contact material	Ag
Conductor size	4mm ²
LED colour	Green
Electrical life	100x10 ³ (at rated load)
Mechanical life	20x10 ⁶
Width	82mm
Length	22.5mm
Projection	65mm with base 52mm without base

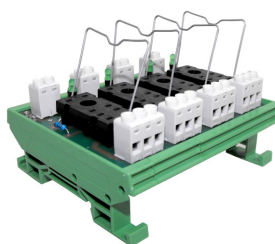


TYPE NO.	BASE OPTION	LENGTH
CIM/R1 -WB-S-24	with base	screw terminals
CIM/R1 -WO-S-24	without base	screw terminals
CIM/R1 -WB-C-24	with base	pluggable terminals (vertical mating)
CIM/R1 -WO-C-24	without base	pluggable terminals (vertical mating)

2, 4, 8 Pole Relay Modules

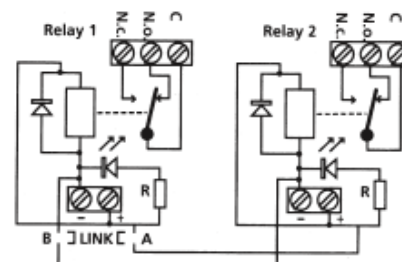
- 3 wiring options:
The modules can operate as individual relays or by utilising shorting links, provide a common negative or positive or a combination of all these
- By shorting across
A = Common Positive
B = Common Negative

CIM/R2-16



SPECIFICATION

Input operating voltage	24V DC
Operating power	0.5W
Contact configuration	1 changeover
Max switching voltage	250VAC
Max output current	5A
Max switching power	1250VA
Contact material	Ag
Conductor size	4mm ² Max
LED colour	Green
Electrical life	100x10 ³ (at rated load)
Mechanical life	20x10 ⁶
Width	82mm
Length	2 channels 45mm 4 channels 90mm 8 channels 169mm



TYPE NO.	POLES	BASE OPTION	LENGTH
CIM/R2 -WB-S-24	2	with base	screw terminals
CIM/R2 -WO-S-24	2	without base	screw terminals
CIM/R2 -WB-C-24	2	with base	pluggable terminals (vertical mating)
CIM/R2 -WO-C-24	2	without base	pluggable terminals (vertical mating)
CIM/R4 -WB-S-24	4	with base	screw terminals
CIM/R4 -WO-S-24	4	without base	screw terminals
CIM/R4 -WB-C-24	4	with base	pluggable terminals (vertical mating)
CIM/R4 -WO-C-24	4	without base	pluggable terminals (vertical mating)
CIM/R8 -WB-S-24	8	with base	screw terminals
CIM/R8 -WO-S-24	8	without base	screw terminals
CIM/R8 -WB-C-24	8	with base	pluggable terminals (vertical mating)
CIM/R8 -WO-C-24	8	without base	pluggable terminals (vertical mating)

INTERFACE MODULES & SUPPORTS

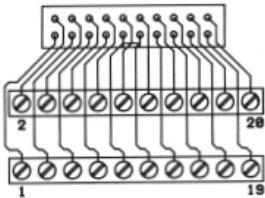
I.D.C Interface Modules

- Low profile
- Cable acceptance of up to 4mm²
- 45° cable entry for easy access
- Ensures simple and speedy interfacing between data and field cables
- Custom interfaces available to order



TYPE NO.	POLES
CIM/10W-IDCS	10
CIM/20W-IDCS	20
CIM/26W-IDCS	26
CIM/34W-IDCS	34
CIM/40W-IDCS	40
CIM/50W-IDCS	50

SPECIFICATION	
Voltage	50V DC max
Current	1A max
Connections	Screw terminal 45° Rising clamp 4mm ² wire acceptance
Width	82mm all types
Length	10 pole 55mm 20 pole 55mm 26 pole 80mm 34 pole 90mm 40 pole 113mm 50 pole 134mm



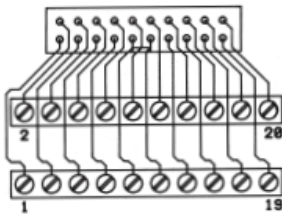
Subminiature 'D' Connector Modules

- Low profile
- Cable acceptance of up to 4mm²
- 45° cable entry for easy access
- Ensures simple and speedy interfacing between data and field cables
- Sub-miniature D male or female
- Custom interfaces available to order



TYPE NO.	WAYS	D CONNECTOR
CIM/9W-DMS	9	Male 'D'
CIM/15W-DMS	15	Male 'D'
CIM/25W-DMS	25	Male 'D'
CIM/37W-DMS	37	Male 'D'
CIM/9W-DFS	9	Female 'D'
CIM/15W-DFS	15	Female 'D'
CIM/25W-DFS	25	Female 'D'
CIM/37W-DFS	37	Female 'D'

SPECIFICATION	
Voltage	50V DC max
Current	1A max
Connections	Screw terminal 45° Rising clamp 4mm ² wire acceptance
Width	82mm all types
Length	9 way 34mm 15 way 57mm 25 way 80mm 37 way 113mm
Earth	The metal surround of the D is used and taken to connector terminal



INTERFACE MODULES & SUPPORTS

Diode Module and Component Modules

- Protects against return voltage to circuits
- Low profile
- 45° cable entry for easy access
- Available also as a component carrier
- Custom interfaces available to order

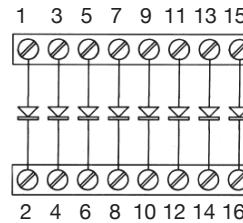
CIM/8W



TYPE NO.	POLES
CIM/8W-D10	Diode module
CIM/8W-COMP	without diodes component carrier

SPECIFICATION

Voltage	250V DC max
Current	1A max
Characteristics of IN4007	1000V Peak 250V 1Amp
Width	82mm
Length	45mm

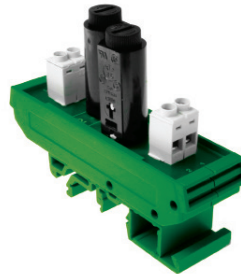


TYPE CIM/8W-D10

Fuse Modules

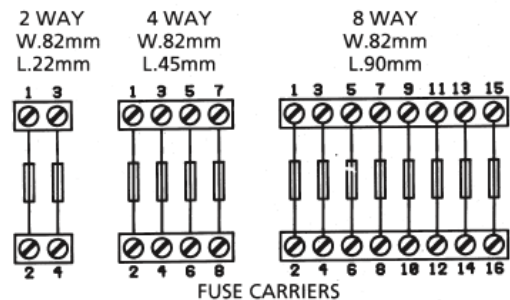
- Available with either screw terminal blocks or pluggable terminals
- Available with LED indication
- Custom interfaces available to order
- approved fuseholder

CIM/2WFU



SPECIFICATION

Voltage	250V AC max
Fuse	Current max per fuse 3A, max total 6.3A
Fuse size	20x5mm full range available
Fuseholders	Screwdriver release, boyonet cap
Terminations	Rising clamp 4mm ² wire acceptance
Width	82mm all types
Length	2 way 22mm 4 way 45mm 8 way 45mm



TYPE NO.	FUSES	TERMINAL
CIM/2WFU-S	2	screw terminals
CIM/2WFU-C	2	pluggable terminals (vertical mating)
CIM/4WFU-S	4	screw terminals
CIM/4WFU-C	4	pluggable terminals (vertical mating)
CIM/8WFU-S	8	screw terminals
CIM/8WFU-C	8	pluggable terminals (vertical mating)

PCB
TERMINAL
BLOCKS

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FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

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PRODUCTS

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INTERFACE MODULES & SUPPORTS

Opto-Isolator Interface

- Four independent isolated channels
- Plug-in vertical terminal blocks
- On board LED for input check
- DC polarity insensitive
- Floating 300VDC/150mA Darlington transistors
- For pull-down, isolation & noise-reduction, machine logic voltage shifter or drive panel LED indicator applications
- Low output current sufficient for medium-sized relays
- Sufficient current at low output voltages for medium size relays
- AC or DC input selector by jumper



TYPE NO.	DESCRIPTION
CIM/Opto4	4 channel opto isolator

SPECIFICATION		
Input	DC	24-400V
	AC	24-265V
Output	DC	300VDC/150mA
		max power 150mW
Input-output isolation		2kVAC
Cable entry		2.5mm ²

PCB
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BLOCKS

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INTERFACE MODULES & SUPPORTS

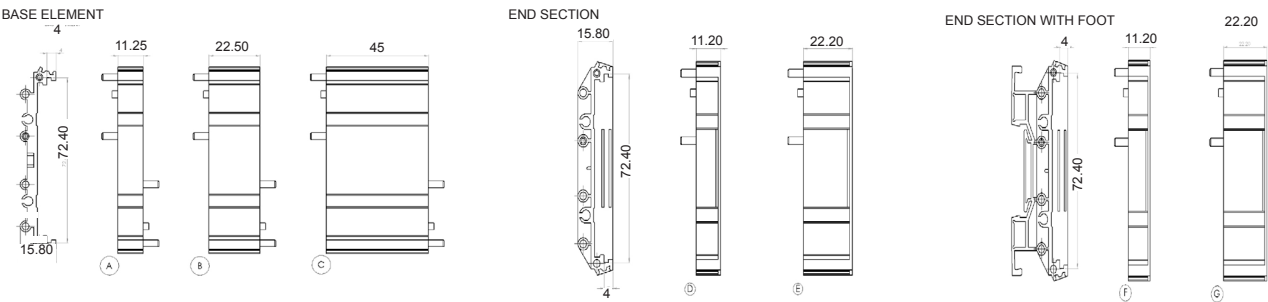
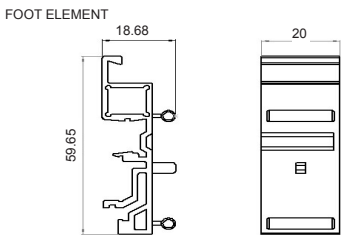
Mini Series 72mm Empty Modular Interface Supports

- Suitable for 72mm width PCB's
- Modular Construction for easy Assembly
- Snap fit Din Rail mounting fixtures
- Moulded in green UL 94V0 flame retardant PA
- Wall mounting kit option
- Terminal blocks available in same colour
- Integral marker facility
- Registered Design
No: 2106418®

- Also available in different colours
- End section foot for top hat DIN rail



TYPE NO.	DESCRIPTION	WIDTH
CIME/M/BE1125SS	Base element	11.25mm
CIME/M/BE2250SS	Base element	22.5mm
CIME/M/BE4500SS	Base element	45.0mm
CIME/M/SE1125SS	End Section	11.25mm
CIME/M/SE2250SS	End Section	22.5mm
CIME/M/SEF1125SS	End Section with foot	11.25mm
CIME/M/SEF2250S	End Section with foot	22.5mm
CIME/M/FE0000SS	Foot element	



CIME/M	END SECTION			BASE ELEMENTS		PART COUNT
	SEF1125SS	SEF2250SS	BE1125SS	BE2250SS	BE4500SS	
TOTAL PCB LENGTH	10mm	21.25mm	11.25mm	22.5mm	45.0mm	
20mm	2					2
31.25mm	1	1				2
42.5mm		2				2
53.75mm		2	1			3
65mm		2		1		3
76.25mm	1	1			1	3
87.5mm		2			1	3
98.75mm		2	1		1	4
110mm		2		1	1	4
121.25mm	1	1			2	4
132.5mm		2			2	4
143.75mm		2	1		2	5
155mm		2		1	2	5
166.25mm	1	1			3	5
177.5mm		2			3	5

The Table above shows how, for a given PCB Length, modules can be selected to make an interface support

Wall Mounting Plates

- Flush and raised surface mounting plates
- Press into sides of end section without tool
- Use foot element on long lengths with raised plates

TYPE NO	STYLE
CIME/M/MPF	Flush
CIME/M/MPR	Raised



INTERFACE MODULES & SUPPORTS

Mini Series 72mm Empty Extruded Interface Support

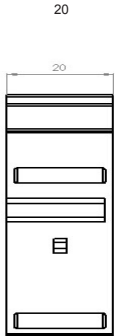
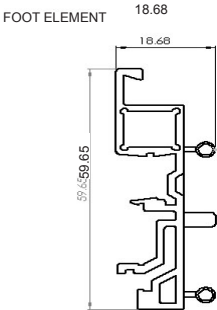
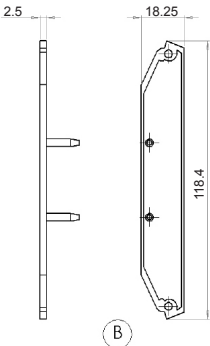
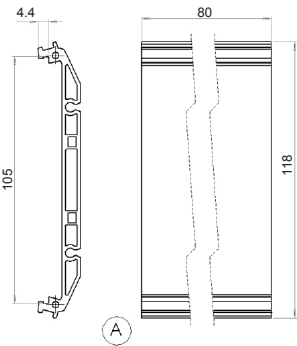
- Suitable for 72mm width PCB's
- Snap fit Din Rail mounting fixtures
- Available in pre-cut lengths up to 2 metres
- Terminal blocks available in same colour
- Base is moulded in PVC
- End caps and feet are moulded in green UL94-V0 flame retardant PA

CIME/M/E



TYPE NO.	2m Extruded base element
CIME/M/BE2000E	End cover
CIME/M/EC0000E	Fixing screws for end covers
CIME/M/SCREWE	Foot element
CIME/M/FE0000E	

CIME-M-E



- Drawing Tolerance is +0.7

Complete Modules

- Cut to length base element
- One end & feet supplied pre-assembled
- One end & screws supplied loose

LENGTH	NO. OF FEET	TYPE NO.	DESCRIPTION
16-50mm	1	CIM72/xxxx/E	Complete module
51-150mm	2		
151-300mm	3		
301-500mm	4		
501-750mm	5		
751-999mm	6		

PCB
TERMINAL
BLOCKS

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BATTERIES

TRANS-
FORMERS

INTERFACE MODULES & SUPPORTS

Euro series 107mm Empty Modular Interface Support

- Suitable for 107mm width PCB's
- Modular Construction for easy assembly
- Snap fit Din Rail mounting fixtures
- Moulded in green UL 94V0 flame retardant PA
- Terminal blocks available in same colour
- Integral marker facility
- Integral Din rail mounting clip

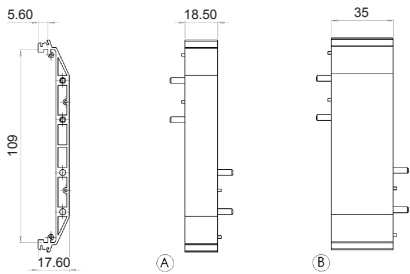


PCB LENGTH	END SECTION	BASE ELEMENT		PART COUNT
		11.5mm	18.5mm 35mm	
20mm	2			2
38.5mm	2	1		3
55mm	2		1	3
73.5mm	2	1	1	4
90mm	2		2	4
108.5mm	2	1	2	5
125mm	2		3	5
143.5mm	2	1	3	6
160mm	2		4	6
178.5mm	2	1	4	7
195mm	2		5	7
213.5mm	2	1	5	8
230mm	2		6	8
248.5mm	2	1	6	9
265mm	2		7	9

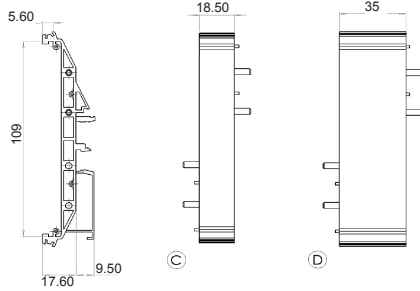
The Table above shows how, for a given PCB Length, modules can be selected to make an interface support

TYPE NO.	DESCRIPTION	WIDTH
CIME/E/BE1850S	Base element	18.5mm
CIME/E/BE3500S	Base element	35mm
CIME/E/BEF1850S	Base element with foot	18.5mm
CIME/E/BEF3500S	Base element with foot	35mm
CIME/E/SE1000S	End Section	11.5mm
CIME/E/SEF1000S	End Section with foot	11.5mm

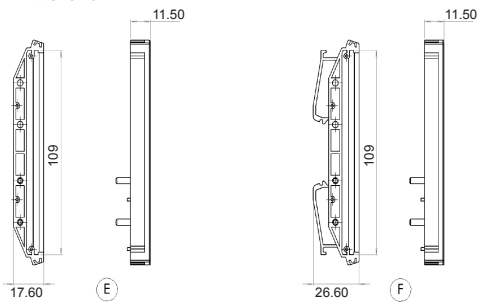
BASE ELEMENTS



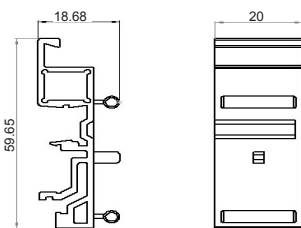
BASE ELEMENTS WITH FOOT



END SECTION



FOOT ELEMENT



Wall Mounting Plates

- Flush and raised surface mounting plates
- Press into sides of end section without tool
- Use foot element on long lengths with raised plates

TYPE NO	STYLE
CIME/E/MPF	Flush
CIME/E/MPR	Raised



INTERFACE MODULES & SUPPORTS

Euro series 107mm Empty Extruded Interface Support

- Suitable for 107mm width PCB's
- Snap fit Din Rail mounting fixtures
- Available in pre-cut lengths up to 2 metres
- Terminal blocks available in same colour
- Base is moulded in PVC
- End caps and feet are moulded in green UL94-V0 flame retardant PA

CIME/E/E



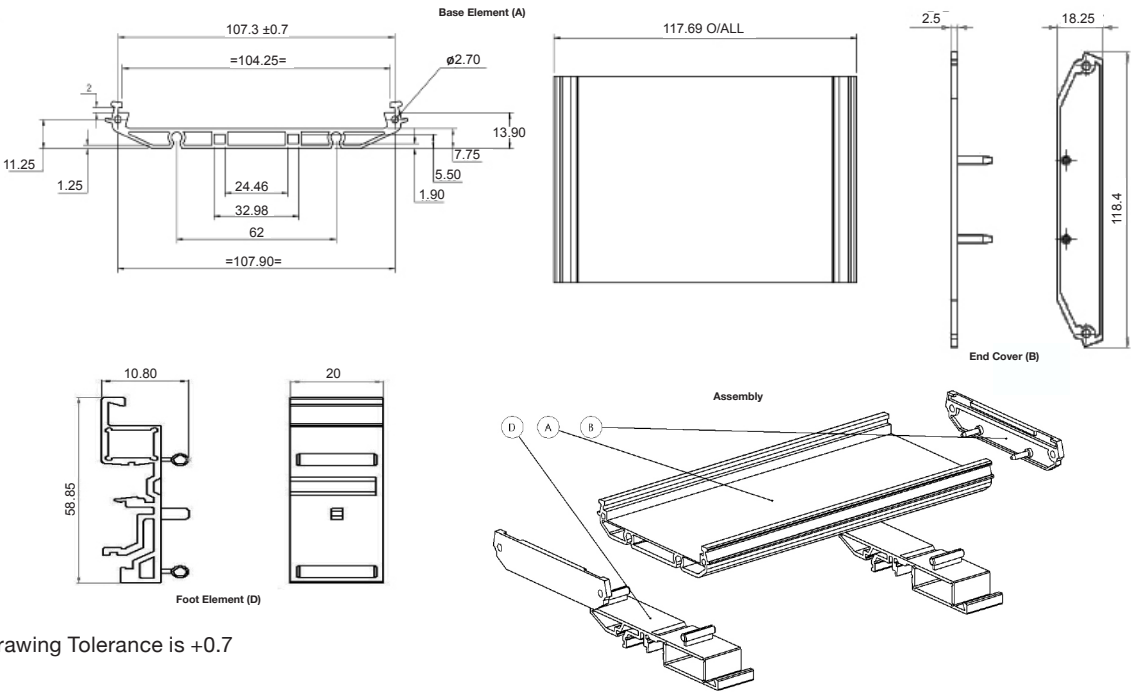
TYPE NO.	DESCRIPTION
CIME/E/BE2000E	2m Extruded base element
CIME/E/EC0000E	End cover
CIME/E/SCREWE	Fixing screws for end covers
CIME/E/FE0000E	Foot element

Complete Modules

- Cut to length base element
- One end & feet supplied pre-assembled
- One end & screws supplied loose

LENGTH	NO. OF FEET
16-50mm	1
51-150mm	2
151-300mm	3
301-500mm	4
501-750mm	5
751-999mm	6

TYPE NO.	DESCRIPTION
CIM107/xxxx/E	Complete module



- Drawing Tolerance is +0.7

PCB
TERMINAL
BLOCKS

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FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

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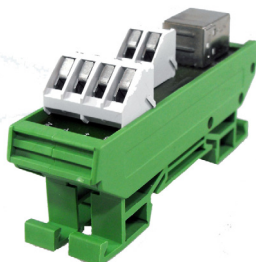
TRANS-
FORMERS

INTERFACE MODULES & SUPPORTS

USB A Interface Module

- Single USB A type socket to screw terminals
- Terminals marked +5V, D-, D+ and GND
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/USBA



SPECIFICATION

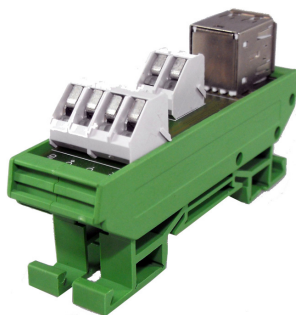
Rating	30V DC 100mA		
Cable entry	0.2-4mm ² (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/USBA	44mm (1.73")	83mm (3.27")	26mm (1.02")

TYPE NO.	DESCRIPTION
CIM/USBA	USB A to screw terminal interface. 35 mm Din Rail mounting

USB B Interface Module

- Single USB B type socket to screw terminals
- Terminals marked +5V, D-, D+ and GND
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/USBB



SPECIFICATION

Rating	30V DC 100mA		
Cable entry	0.2-4mm ² (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/USBB	41mm (1.61")	83mm (3.27")	26mm (1.02")

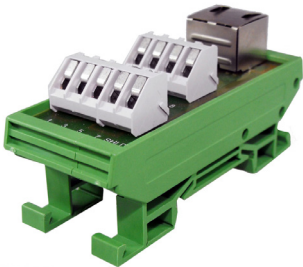
TYPE NO.	DESCRIPTION
CIM/USBB	USB B to screw terminal interface. 35 mm Din Rail mounting

INTERFACE MODULES & SUPPORTS

RJ45 Interface Module

- Single RJ45 (8P8C) type socket to screw terminals
- Terminals marked 1 to 8 (+ Shield)
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/RJ45



SPECIFICATION			
Rating	0.2-4mm² (30-12 AWG)		
Cable entry	0.2-4m² (30-12 AWG)		
Terminal screw	6mm (0.24")		
Strip length	6mm (0.24")		
Max terminal torque	Height:	Width:	Length:
Dimensions:	Height	Width	Length

TYPE NO.	DESCRIPTION
CIM/RJ45	RJ45 to screw terminal interface. 35 mm Din Rail mounting

RJ45 Coupler

This module provides a quick and compact method of connecting two RJ45 (8P8C) type cables.

- Two RJ45 (8P8C) type shielded sockets
- Connected pin to pin (1 to 1, 2 to 2 etc)
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Reverse tab sockets for ease of cable release
- Available with optional wall mounting plates
- RoHS compliant
- SVHC free (2013)
- CE approved

CIM/2RJ45C



SPECIFICATION			
Rating	Height:	Width:	Length:
Dimensions:	42mm (1.66")	83mm (3.27")	23mm (0.91")

TYPE NO.	DESCRIPTION
CIM/2RJ45C	RJ45 to RJ45 coupler. 35 mm Din Rail mounting

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Multiple IDC Interface Modules

- Three IDC dual row headers to screw terminals
- Long ejector latches for strain relief sockets
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/XXXXXXW-IDCS



SPECIFICATION

Rating	50V DC 100mA		
Cable entry	0.2-4mm ² (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/101416W-IDCS	56mm (2.20")	83mm (3.27")	46mm (1.81")
CIM/202426W-IDCS	56mm (2.20")	83mm (3.27")	80mm (3.15")
CIM/303440W-IDCS	56mm (2.20")	83mm (3.27")	114mm (4.49")
CIM/506064W-IDCS	56mm (2.20")	83mm (3.27")	170mm (6.69")

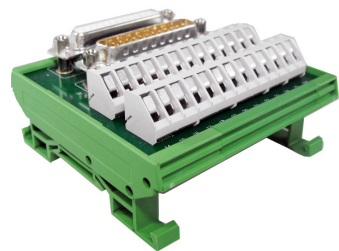
TYPE NO.	DESCRIPTION
CIM/101416W-IDCS	10, 14 and 16 way IDC to screw terminal interface. 35 mm Din Rail mount
CIM/202426W-IDCS	20, 24 and 26 way IDC to screw terminal interface. 35 mm Din Rail mount
CIM/303440W-IDCS	30, 34 and 40 way IDC to screw terminal interface. 35 mm Din Rail mount
CIM/506064W-IDCS	50, 60 and 64 way IDC to screw terminal interface. 35 mm Din Rail mount

INTERFACE MODULES & SUPPORTS

Male and Female D-Connector Interface Modules

- D Sub male and female to screw terminals
- Terminals marked 1 2 3 etc (+ Shield)
- Separate shield connection
- 35mm DIN rail mounting
- Option for 32mm (G) rail mounting
- Available with optional wall mounting plates
- 45° terminals for easy access
- RoHS compliant
- SVHC free (2012)

CIM/XXW-DMFS



SPECIFICATION			
Rating	50V DC 100mA		
Cable entry	0.2-4mm ² (30-12 AWG)		
Terminal screw	M3		
Strip length	6mm (0.24")		
Max terminal torque	0.5Nm (4lb-in)		
Dimensions:	Height:	Width:	Length:
CIM/9W-DMFS	39mm (1.54")	83mm (3.27")	35mm (1.38")
CIM/15W-DMFS	39mm (1.54")	83mm (3.27")	58mm (2.28")
CIM/25W-DMFS	39mm (1.54")	83mm (3.27")	78mm (3.07")
CIM/37W-DMFS	39mm (1.54")	83mm (3.27")	114mm (4.49")
CIM/50W-DMFS	37mm (1.46")	83mm (3.27")	136mm (5.36")

TYPE NO.	DESCRIPTION
CIM/9W-DMFS	9 way male and female D Sub screw terminal interface. 35 mm Din Rail mounting
CIM/15W-DMFS	15 way male and female D Sub screw terminal interface. 35 mm Din Rail mounting
CIM/25W-DMFS	25 way male and female D Sub screw terminal interface. 35 mm Din Rail mounting
CIM/37W-DMFS	37 way male and female D Sub screw terminal interface. 35 mm Din Rail mounting
CIM/50W-DMFS	50 way male and female D Sub screw terminal interface. 35 mm Din Rail mounting

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COMPACT 8-11 PIN COMMERCIAL RELAY BASES

8-Pin	CS083A	p182
11-pin	CS113A	p182
Retaining Clip	CSC03	p182

COMPACT 8-11 PIN RELAY BASES

8-Pin	CRBS8	p183
11-pin	CRBS11	p183
8-Pin + Common	CRBS9	p183
11-Pin + Common	CRBS12	p183
Retaining Clips	CSC19	p183

COMPACT INDUSTRIAL RELAY BASES

2 Pole 8-Pin	CRBS15/2N	p184
2 Pole 8-Pin Logical Wiring	CRBS15/2S	p184
3 Pole 11-Pin	CRBS15/3N	p184
3 Pole 11-Pin Logical Wiring	CRBS15/3S	p184
4 Pole 14-Pin	CRBS15/4B	p184
4 Pole 14-Pin Logical Wiring	CRBS15/4S	p184
Ejector Clip	CRCMS35	p184

14-PIN 4 POLE COMPACT INDUSTRIAL RELAY BASES

Retaining Clip	CRBS15/4N	p185
Ejector Clips	CSC1	p185
	CRCM535	p185

1 & 2 POLE DIN MOUNTING RELAY BASES

2.54mm Pitch	CRBS25	p185
3.2mm Pitch	CRBS32	p185
3.5mm Pitch	CRBS35	p185
5.08mm Pitch	CRBS50	p185
Retaining Clip	CRCMS	p185

RELAY BASES

DIN RAIL MOUNT LOGICAL WIRING RELAY BASES

1 Pole Logical Wiring	CRBS35/3S	p186
2 Pole	CRBS50/3	p186
2 Pole Logical Wiring	CRBS50/3S	p186
Retaining Clip	CRCMS	p186

1 & 2 POLE PCB MOUNTING RELAY BASES

2.54mm Pitch	CRBC25	p187
3.2mm Pitch	CRBC32	p187
3.5mm Pitch	CRBC35	p187
5.08mm Pitch	CRBC50	p187
5.04mm Pitch	CBRC5	p187
Retaining Clip	CRCMH	p187

2 POLE PCB MOUNTING COMMERCIAL RELAY BASES

C2S080	p187
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DIN RAIL ADAPTOR

CRD/Adaptor	p188
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RELAY BASES

Compact 8-11 Pin Commercial Relay Bases

- DIN rail (EN50022) or chassis screw mounting
- Screw driver release DIN clip
- Rising saddle terminals for ease of wire insertion
- Accepts fork, ferule and ring terminals (ring non IP20 only)
- 2 x 2.5mm² cable acceptance
- 2x1.5mm² bootlace crimp
- IP20 finger protection types
- Relay retaining clip accessory
- Tubular contacts for reliability
- Terminal numbering to DIN 46199
- G rail adaptor available
- CE approved

CS113A

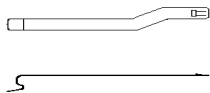


CS083AN

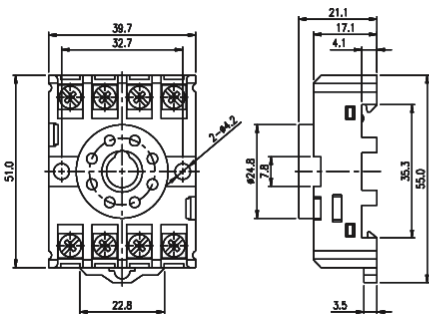


TYPE NO.	DESCRIPTION
CS083A	8-pin open
CS083AN	8-pin IP20 finger protection
CS113A	11-pin open
CS113AN	11-pin IP20 finger protection
CSC03	Retaining Clip

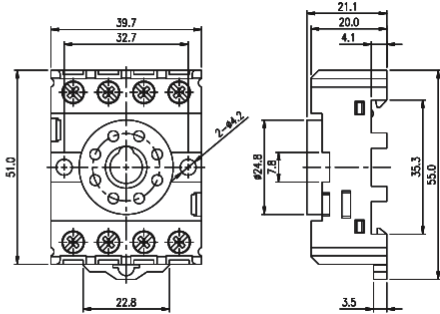
SPECIFICATION	
Rating	10A/250VAC
Dielectric Strength	>2kV
Working temperature	-25°C to 55°C
Insulation resistance	1,000MΩ/500VDC
Moulding	UL94-V0 PA66
Contacts	Phosphor bronze, tin-plated <3µm
Screws	Low carbon steel, lower layer copper plating <2µm, surface layer nickel plating <3µm
Terminal Screw torque	0.7Nm max
Insertion Force	100N max



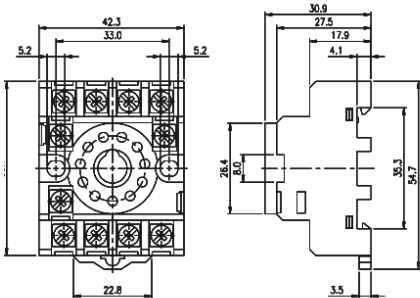
CS083A



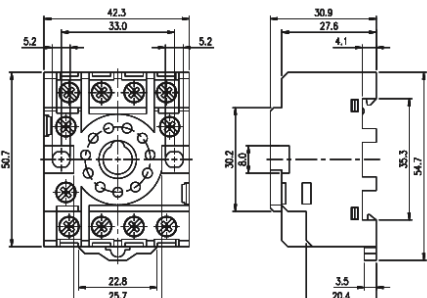
CS083AN



CS113A



CS113AN

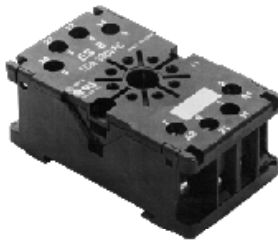


RELAY BASES

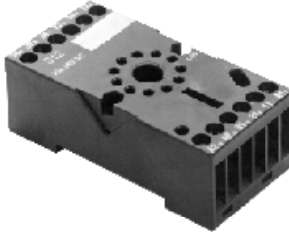
Compact 8-11 Pin Relay Bases

- Compact 8 and 11 pin versions
- Finger proof to IP20
- Din Rail (EN50022) or chassis mounting
- Rising clamp terminals captive screws
- 2 x 2.5mm² wire acceptance
- Common wiring terminal on CRBS9 and CRBS12
- Dual terminal numbering to IEC 67 & DIN 46 199
- Protection modules available for CRBS9 & CRBS12
- G rail adaptor available
- cULus & CE approved

CRBS8



CRBS11

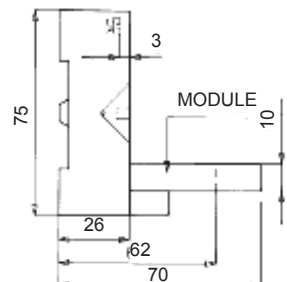
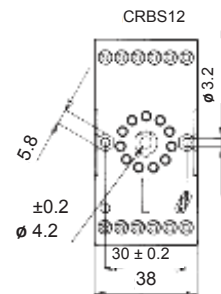
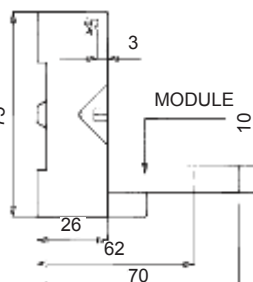
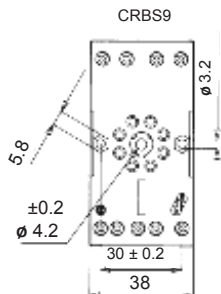
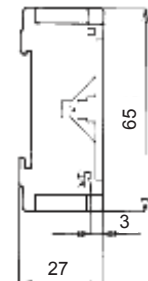
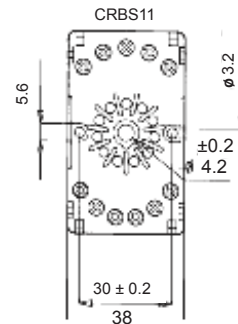
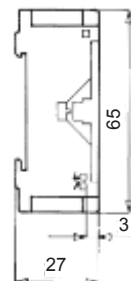
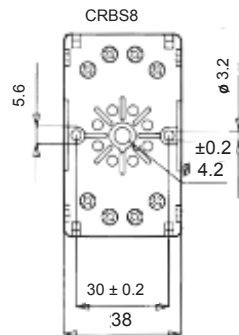
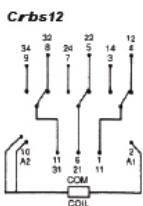
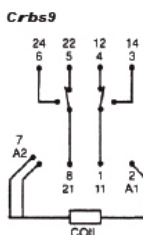
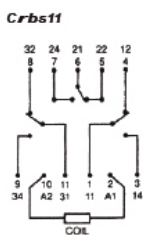
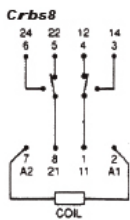


SPECIFICATION

Rating	10A/400VAC
Dielectric strength	>3kV
Temperature max working	85°C
Moulding	UL94-V1 self extinguishing glass filled
Contacts	6μ nickel plated brass
screws	Nickel plated steel M3 combination head

TYPE NO. DESCRIPTION

CRBS8	8-pin
CRBS11	11-pin
CSC19	Retaining Clip
CRBS9	8 pin + common
CRBS12	12 pin + common



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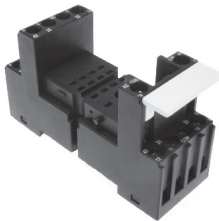
TRANS-
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RELAY BASES

Compact Industrial Relay Bases

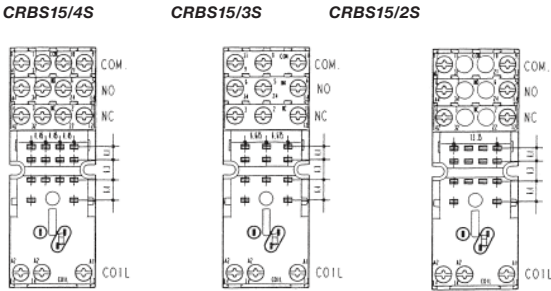
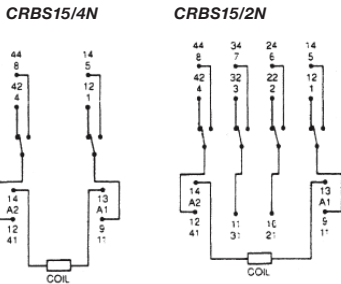
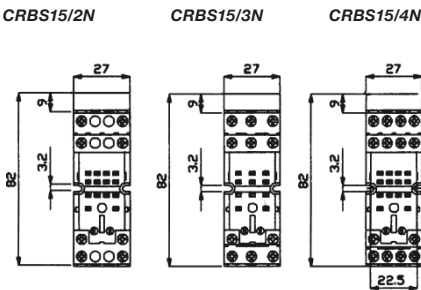
- DIN rail (EN50022)
- Finger proof to IP20
- Rising clamp terminals
- Status indicator/protection module option
- Module only removable when relay removed
- Marking tab supplied with base
- Dual terminal numbering to IEC 67 & DIN 46199
- Ejector clip available
- Logical wiring on /S series
- G rail adaptor available
-  us, CE approved

CRBS15



TYPE NO.	DESCRIPTION
CRBS15/2N	2 pole 8 pin
CRCMS35	Ejector clip
CRBS15/4B	4 pole 14 pin
CRBS15/3N	3 pole 11 pin

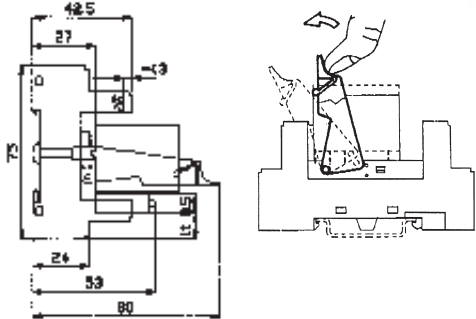
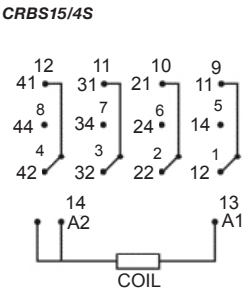
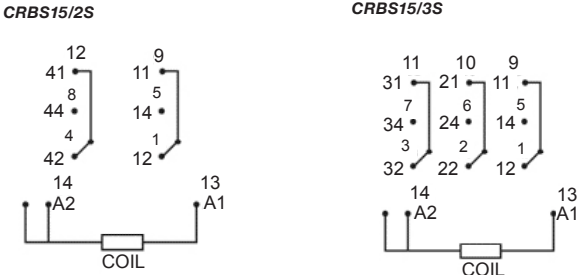
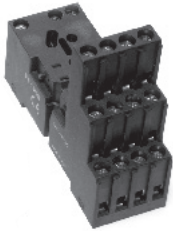
SPECIFICATION	
Rating	12A/300VAC
Dielectric strength	>3kV
Index of protection	IP20
Temperature, working	-40°C to +85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head



CRBS15/S

TYPE NO.	DESCRIPTION
CRBS15/2S	2 pole 8 pin
CRBS15/3S	3 pole 11 pin
CRBS15/4S	4 pole 14 pin
CRCMS35	Ejector clip

CRBS15/S

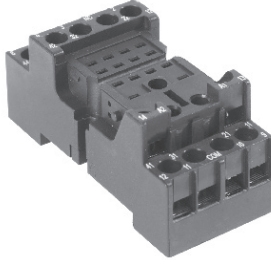


RELAY BASES

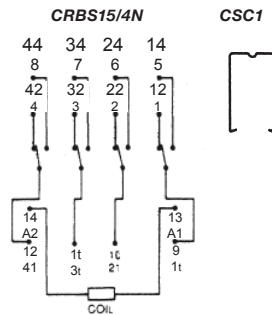
14 Pin 4 Pole Compact Industrial Relay Bases

- Din Rail (EN50022) or chassis mounting
- Fingerproof to IP20
- Rising clamp captive screws terminals
- Module only removable when relay removed
- Adjustable retaining clip
- Marking tab
- Dual terminal numbering to IEC 67 & DIN 46199
- 3 clip height positions
- G rail adaptor available
- CE approved

CRBS15/4N



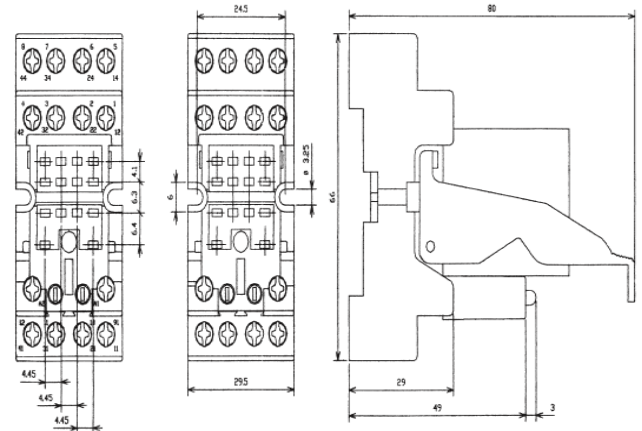
TYPE NO.	DESCRIPTION
CRBS15/4N	Relay Base
CSC1	Retaining clip
CRCM535	Ejector clip



SPECIFICATION

Rating	10A/300VAC
Dielectric strength	>3kV
Index of protection	IP20B (EN 605229)
Temperature, working	100°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6μ nickel plated brass
Screws	Nickel plated steel M3 combination head

CRBS15/4N



1 & 2 Pole DIN Mounting Relay Bases

- Compact 1 and 2 pole versions
- Din Rail mounted (EN50022) or chassis mounting
- Rising clamp captive screw terminals
- 2 x 2.5mm² wire acceptance (14AWG)
- Unique relay release lever, three sizes to suit most popular relays
- Marking tag supplied
- G rail adaptor available
- CE approved

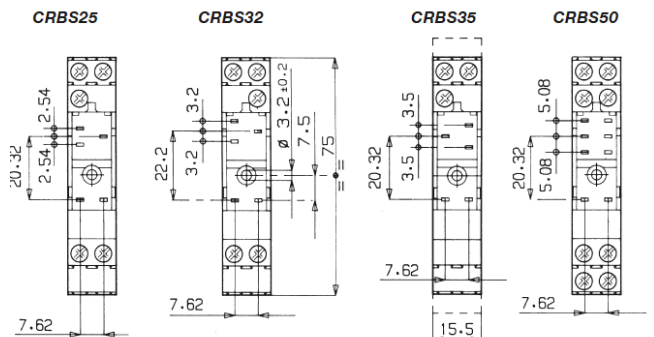
CRBS



TYPE NO.	DESCRIPTION
CRBS25	2.54mm
CRBS32	3.2mm
CRBS35	3.5mm
CRBS50	5.08mm
CRCMS12	12mm clip
CRCMS16	16mm clip
CRCMS25	25mm clip

SPECIFICATION

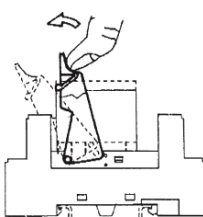
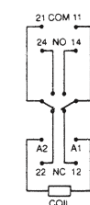
Rating	12A/300VAC
Dielectric strength	>3kV
Temperature, working	85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6μ nickel plated brass
Screws	Nickel plated steel M3 combination head



CRBS25/32/35



CRBS50

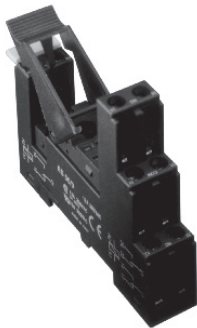


RELAY BASES

DIN Rail Mount Logical Wiring Relay Bases

- Compact 1 or 2 pole
- ‘Safety’ Isolation between coil & Contacts
- Din Rail (EN50022) or chassis mounting
- Rising clamp captive screw terminal
- 2 x 2.5mm wire acceptance (14AWG)
- Unique relay release lever, three sizes to suit popular relays
- Marking tag
- G rail adaptor available
- cULus & CE approved

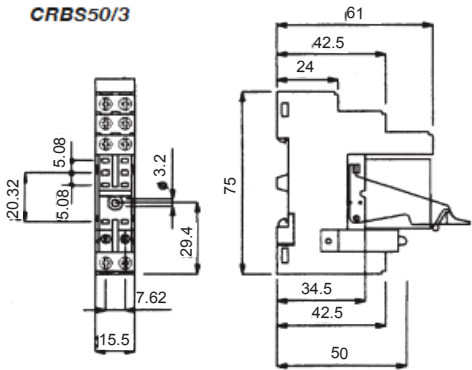
CRBS50/3



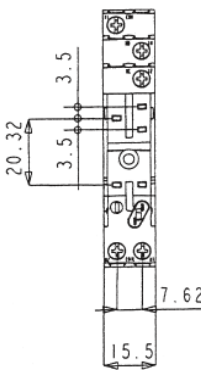
TYPE NO.	DESCRIPTION
CRBS50/3	2 pole
CRBS50/3S	2 pole logical wiring
CRBS35/3S	1 pole
CRCMS12	12mm clip
CRCMS16	16mm clip
CRCMS25	25mm clip

SPECIFICATION	
Rating	12A/300VAC
Dielectric strength	>3kV
Temperature, working	85°C
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6µ nickel plated brass
Screws	Nickel plated steel M3 combination head

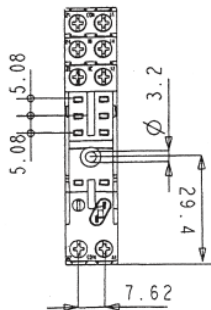
CRBS50/3



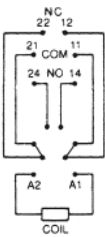
CRBS35/3S



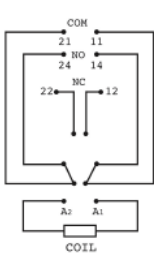
CRBS50/3S



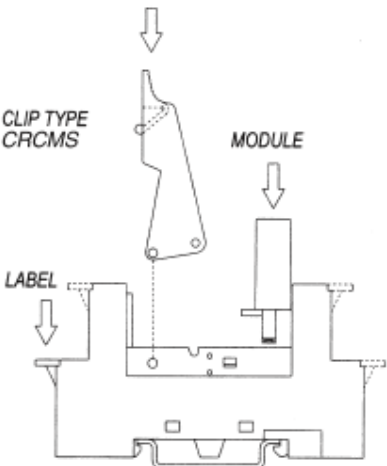
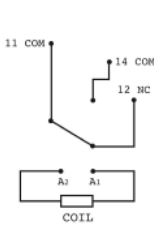
CRBS50/3



CRBS50/3S



CRBS35/3S



RELAY BASES

1 & 2 Pole PCB Mounting Relay Bases

- Compact 1 or 2 pole versions
- PCB mounting
- 2.54-5.08mm x 7.62mm pitch
- 3 sizes of fixing clip to suit popular relay sizes in metal and plastic

CRBC



SPECIFICATION

Rating	10A/300VAC
Dielectric strength	>5kV
Moulding	UL94-V1 self extinguishing glass filled PA6
Contacts	6μ nickel plated brass

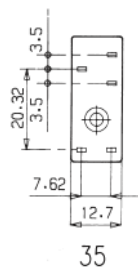
TYPE NO. POLES SIZE

CRBC25	1	2.5mm
CRBC32	1	3.2mm
CRBC35	1	3.5mm
CRBC50	2	5.08mm
CRBC5	1	5.04mm

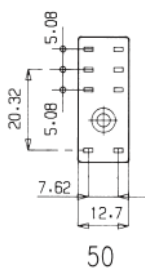
FIXING CLIP

CRCMH16-2	Metal
CRCMH20-2	Metal
CRCMH25-2	Metal
CRCMP12-2	Plastic
CRCMP16-2	Plastic

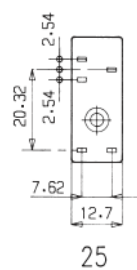
CRBC35



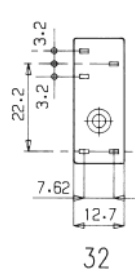
CRBC50



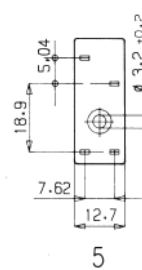
CRBC25



CRBC32



CRBC5



2 Pole PCB Mounting Commercial Relay Bases

- 5.0mmx7.5mm pitch
- PCB mounting
- Anti solder wicking pins
- Solid pins for improved solderability
- Metal clip in 3 heights to order
- cULus approved

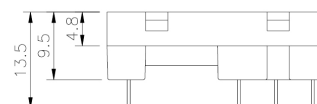
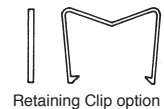
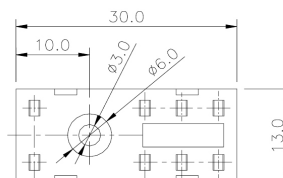
C2S080



SPECIFICATION

Rating	12A/250VAC
Dielectric strength	>2.5kV
Working temperature	-25°C +70°C
Moulding	UL94-V1 self extinguishing glass filled PP0
Contacts	6μ tin plated brass
Insertion force	100N max

TYPE NO.	DESCRIPTION
C2S080	2 pole base



RELAY BASES

DIN Rail Adaptor

A one piece adaptor which allows enclosures, relay bases etc to be fitted to all types of DIN Rail. Designed for use on standard Top Hat, G-Section & Mini Top Hat DIN Rails.

- Snap fit DIN Rail mounting fixtures
- Flame retardant UL-95V0
- Symmetrical (35mm)
- Asymmetrical (G rail)
- Mini symmetrical (15mm)

CDR/Adaptor



TYPE NO.	DESCRIPTION
CDR/Adaptor	DIN Rail Adaptor

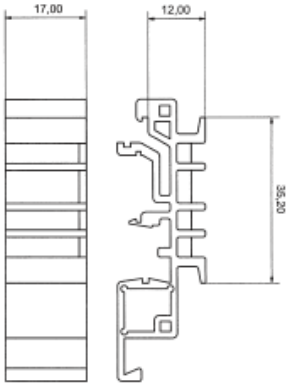
Mini Top Hat 15mm



Standard Top Hat 35mm



G Section 32mm



PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

LIMIT &
SAFETY
SWITCHES

CONTROL
PRODUCTS

INTERFACE
MODULES &
SUPPORTS

RELAY
BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

DIN RAIL STANDARD HEIGHT MODULAR BOXES

WALL STANDARD HEIGHT MODULAR BOXES			
Enclosures	Standard Open Top, Single Row Terminals	CNMB/x/1	p190
	Standard Open Top, Double Row Terminals	CNMB/x/2	p190
	Solid Top Enclosure	CNMB/x/ST	p190
	Vented Sides	CNMB/x/V	p190
	Extended Walls	CNMB/x/W	p190
Terminal Guards	Solid Type	CNMB/0/TGS	p191
	5.08mm Pitch Perforated	CNMB//TG508P	p191
	5.08mm Pitch Pre-Drilled	CNMB/TG508	p191
	7.5mm Pitch Perforated	CNMB/TG750	p191
	10.16mm Pitch Perforated	CNMB/TG100	p191
	Extended Height Module	CNMB/E	p192
	Standard Flat Recessed	CNMB/P	p192
Panels/Covers	Curved Cover	CNMB/PC	p192
	Hinged Curved	CNMB/HPC	p192

ENCLOSURES

EXTENDABLE MODULE ENCLOSURE	CMEB	p193
VERTICAL BOX FOR DIN RAIL	CVB	p193
CONTROL HOUSING (DIN RAIL MOUNTING)	CCH12	p194
DIN RAIL ADAPTOR	CDR/Adaptor	p194

ENCLOSURES

DIN Rail Standard Height Module Boxes

- Snap fit modular design for ease of assembly and custom kitting
- Base fits 35mm DIN rail or directly to flat surface
- Moulded in light grey UL94-V0 flame retardant polycarbonate
- Carries up to 3 PCBs horizontally or 2 vertically
- Snap fit terminal cover options for IP20 finger protection
- Snap in covers available in grey, clear, transparent red and smoked
- Standard enclosure consists of base, top and rail/wall clips
- Open top as standard, solid top, vented and extended wall options available
- Covers and terminal guards ordered separately and can be supplied in kits
- Easily customised covers and terminal guards
- Enclosed base offers isolation from DIN rail
- Front panel ideal for screen printing and recessed solid top for labels and membranes
- Other colours and EMC shielding available to order

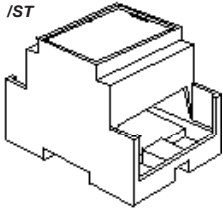
CNMB



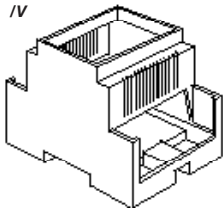
	BOX LENGTH	HORIZONTAL PCB SIZES			VERTICAL PCB SIZES		PCB FIXING BOSS	
		A	B	C	D	E	X	Y
CNMB/1-	17.5mm	86.5x14mm	57x14mm	41.8x14mm	34x59.6mm	40x14.8mm	6.2mm	18.3mm
CNMB/2-	36mm	86.5x33mm	57x32mm	42x32mm	34x59.6mm	40x33mm	6.2mm	18.3mm
CNMB/3-	53mm	86.5x50mm	57x49mm	42x49mm	34x59.6mm	40x50mm	8.8mm	18.3mm
CNMB/4-	71mm	86.5x68mm	57x67mm	42x67mm	34x59.6mm	40x68mm	8.8mm	18.3mm
CNMB/5-	88mm	86.5x84mm	57x83mm	42x83mm	34x59.6mm	40x84mm	8.8mm	18.3mm
CNMB/6-	106mm	86.5x103mm	57x102mm	42x102mm	34x59.6mm	40x103mm	8.9mm	18.3mm
CNMB/9-	159mm	86.5x156mm	57x155.5mm	42x155mm	34x59.6mm	40x155mm	8.9mm	18.3mm
CNMB/12-	212mm	86.5x208mm	57x207mm	42x207mm	34x59.6mm	40x208mm	8.9mm	18.3mm

For double row terminals covers both sides, add /2 to type No. (e.g. CNMB/3/2)
For single row terminals cover one side only, add /1 to type No. (e.g. CNMB/3/1)
Box supplied with open top as standard
For solid recessed top used for membrane keypads or clear covers to enclose labels, add /ST to type No. (e.g. CNMB/3ST/2)
For cooling vents both sides add /V to type No. (e.g. CNMB/3/V/2)
For extended side walls which meet the lower PCB behind terminals, add /W to type No. (e.g. CNMB/3W/2)

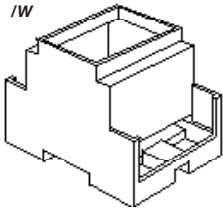
Solid Top
/ST



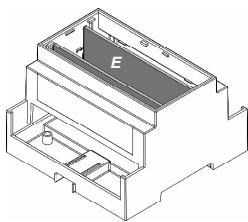
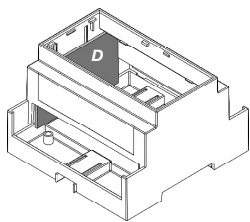
Vented Sides
/V



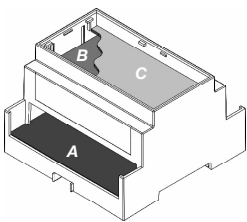
Extended Walls
/W



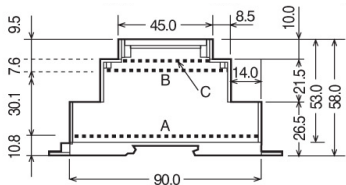
Vertical PCB Positions



Horizontal PCB Positions



Horizontal PCB Sizes



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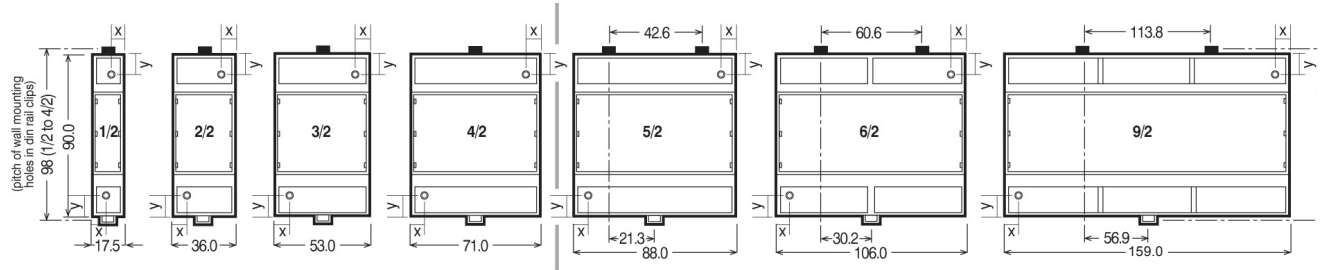
ENCLOSURES

BATTERIES

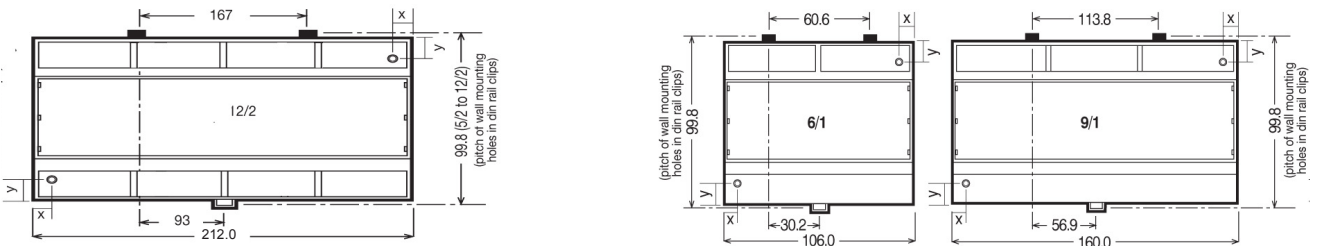
TRANS-
FORMERS

ENCLOSURES

Double Row Terminals/ covers both sides



Single Row Terminals/ covers on one side

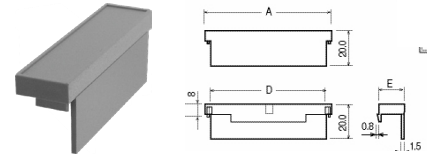


Terminal Guards Solid

TYPE NO.	STYLE	A	D	E
CNMB/1/TGS	Solid	17.5mm	15.0mm	14.3mm
CNMB/2/TGS	Solid	35.5mm	29.9mm	13.8mm
CNMB/3/TGS	Solid	52.8mm	45.5mm	13.8mm
CNMB/4/TGS	Solid	70.6mm	59.9mm	13.8mm
CNMB/5/TGS	Solid	87.6mm	79.5mm	13.8mm

*For 6, 9 & 12 Size Module Use CNMB/3TGS

CNMB/ /TGS

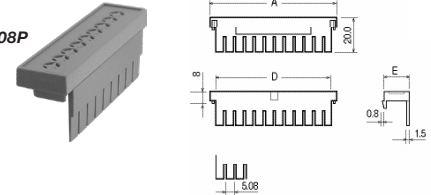


5.08mm pitch perforated

TYPE NO.	STYLE	A	D	E
CNMB/1/TG508P	Solid	17.5mm	15.0mm	14.3mm
CNMB/2/TG508P	Solid	35.5mm	29.9mm	13.8mm
CNMB/3/TG508P	Solid	52.8mm	45.5mm	13.8mm
CNMB/4/TG508P	Solid	70.6mm	59.9mm	13.8mm
CNMB/5/TG508P	Solid	87.6mm	79.5mm	13.8mm

*For 6, 9 & 12 Size Module Use CNMB/3TG508P

CNMB/ /TG508P

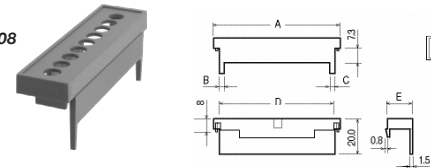


5.08mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/TG508	Pre-Drilled	3	17.5mm	2.3mm	2.3mm	15.0mm	14.3mm
CNMB/2/TG508	Pre-Drilled	6	35.5mm	0.9mm	2.7mm	29.9mm	13.8mm
CNMB/3/TG508	Pre-Drilled	9	52.8mm	2.3mm	2.3mm	45.5mm	13.8mm
CNMB/4/TG508	Pre-Drilled	12	70.6mm	2.7mm	5.8mm	59.9mm	13.8mm
CNMB/5/TG508	Pre-Drilled	15	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module Use CNMB/3/TG508

CNMB/ /TG508

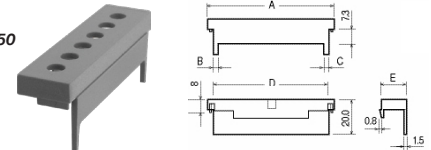


7.5mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/TG750	Pre-Drilled	2	17.5mm	2.3mm	2.3mm	15.0mm	14.3mm
CNMB/2/TG750	Pre-Drilled	4	35.5mm	0.9mm	2.7mm	29.9mm	13.8mm
CNMB/3/TG750	Pre-Drilled	6	52.8mm	2.3mm	2.3mm	45.5mm	13.8mm
CNMB/4/TG750	Pre-Drilled	8	70.6mm	2.7mm	5.8mm	59.9mm	13.8mm
CNMB/5/TG750	Pre-Drilled	10	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module Use CNMB/3/TG750

CNMB/ /TG750

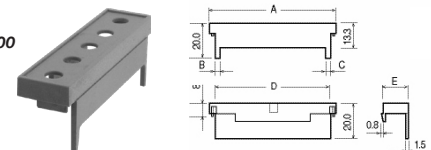


10.16mm pitch pre-drilled

TYPE NO.	STYLE	POLES	A	B	C	D	E
CNMB/1/TG100	Pre-Drilled	2	17.5mm	1.0mm	1.0mm	15.0mm	14.3mm
CNMB/2/TG100	Pre-Drilled	3	35.5mm	0.9mm	0.9mm	29.9mm	13.8mm
CNMB/3/TG100	Pre-Drilled	5	52.8mm	1.0mm	1.0mm	45.5mm	13.8mm
CNMB/4/TG100	Pre-Drilled	6	70.6mm	2.7mm	2.7mm	59.9mm	13.8mm
CNMB/5/TG100	Pre-Drilled	7	87.6mm	2.7mm	5.8mm	79.5mm	13.8mm

For 6, 9 & 12 Size Module use CNMB/3/TG100

CNMB/ /TG100

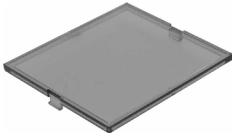


ENCLOSURES

Standard Covers

RED TRANSPARENT	SMOKED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/1/PR	CNMB/1/PS	CNMB/1/PC	CNMB/1/PG	1
CNMB/2/PR	CNMB/2/PS	CNMB/2/PC	CNMB/2/PG	2
CNMB/3/PR	CNMB/3/PS	CNMB/3/PC	CNMB/3/PG	3
CNMB/4/PR	CNMB/4/PS	CNMB/4/PC	CNMB/4/PG	4
CNMB/5/PR	CNMB/5/PS	CNMB/5/PC	CNMB/5/PG	5
CNMB/6/PR	CNMB/6/PS	CNMB/6/PC	CNMB/6/PG	6
CNMB/9/PR	CNMB/9/PS	CNMB/9/PC	CNMB/9/PG	9
CNMB/12/PR	CNMB/12/PS	CNMB/12/PC	CNMB/12/PG	12

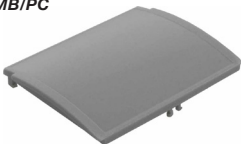
CNMB/P



Curved Covers

RED TRANSPARENT	SMOKED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/1/PRC	CNMB/1/PSC	CNMB/1/PCC	CNMB/1/PGC	1
CNMB/2/PRC	CNMB/2/PSC	CNMB/2/PCC	CNMB/2/PGC	2
CNMB/3/PRC	CNMB/3/PSC	CNMB/3/PCC	CNMB/3/PGC	3
CNMB/4/PRC	CNMB/4/PSC	CNMB/4/PCC	CNMB/4/PGC	4
CNMB/5/PRC	CNMB/5/PSC	CNMB/5/PCC	CNMB/5/PGC	5
CNMB/6/PRC	CNMB/6/PSC	CNMB/6/PCC	CNMB/6/PGC	6
CNMB/9/PRC	CNMB/9/PSC	CNMB/9/PCC	CNMB/9/PGC	9

CNMB/PC

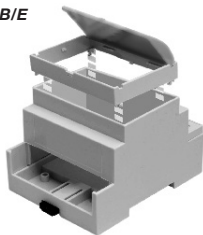


Extended Height Module

- 16mm high
- Accepts hinged, curved lid
- Adds an additional horizontal PCB slot

TYPE NO.	WIDTH
CNMB/2/E	34.7mm
CNMB/3/E	52.0mm
CNMB/4/E	70.0mm
CNMB/5/E	86.5mm
CNMB/6/E	104.5mm
CNMB/9/E	157.7mm

CNMB/E



Curved Hinged Covers

- For use with extended module only

RED TRANSPARENT	CLEAR TRANSPARENT	GREY	SIZE
CNMB/2/HPRC	CNMB/2/HPCC	CNMB/2/HPGC	2
CNMB/3/HPRC	CNMB/3/HPCC	CNMB/3/HPGC	3
CNMB/4/HPRC	CNMB/4/HPCC	CNMB/4/HPGC	4
CNMB/5/HPRC	CNMB/5/HPCC	CNMB/5/HPGC	5
CNMB/6/HPRC	CNMB/6/HPCC	CNMB/6/HPGC	6
CNMB/9/HPRC	CNMB/9/HPCC	CNMB/9/HPGC	9

CNMB/HPC



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BASES

ENCLOSURES

BATTERIES

TRANS-
FORMERS

ENCLOSURES

Extendable Module Box

- 17.5mm width module box, extendable
- Box has a detachable end plate
- Extension box is sideless
- Each module, has 8 removable screw terminals
- Top hat 35mm DIN rail or surface mounting
- Moulded in flame retardant UL94-V0
- *DIN Rail Clips are not supplied with CMEB/E*
- Additional black clips are available on request

CMEB



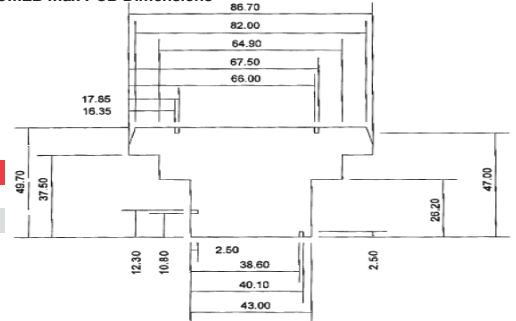
CMEB/E



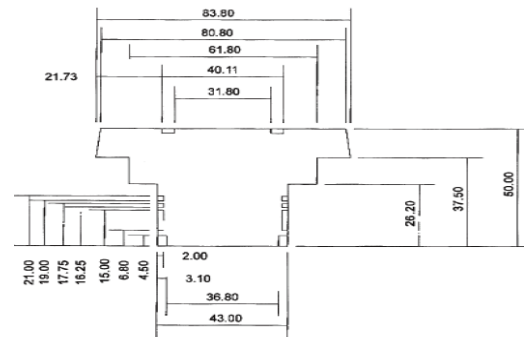
SPECIFICATION

Rating Terminals	8A/250VAC
Cable entry	2x2.5mm ² Solid or Standard
Terminal protection	IP20

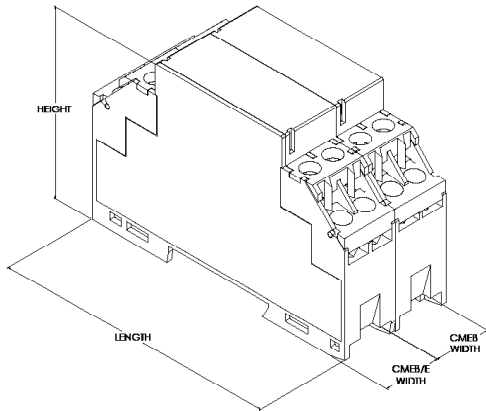
CMEB max PCB Dimensions



CMEB/E max PCB Dimensions



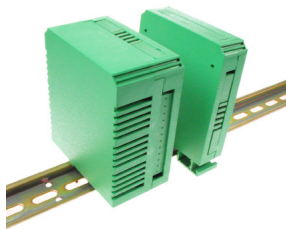
TYPE NO.	DESCRIPTION	TYPE NO.	LENGTH	WIDTH	HEIGHT	DESCRIPTION
CMEB	17.5mm Module box	CMEB	90mm	17.5mm	59mm	17.5mm Module box
CMEB/E	Extension	CMEB/E	90mm	17.5mm	59mm	Extension



Vertical Box for DIN Rail

- Designed for 5mm pitch terminal blocks
- Two sizes, 22.5mm or 45mm wide
- Solid & perforated plates to cover unused terminal areas
- Three sides accept 12-way terminal blocks each side
- Complete box contains one 12-way closed, three 4-way closed & three 4-way perforated plates

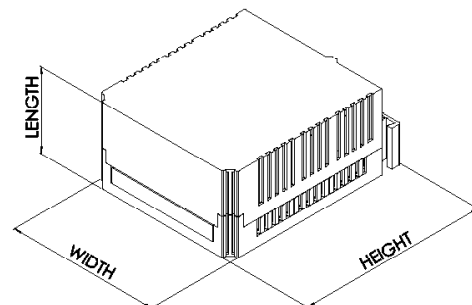
CVB



SPECIFICATION

Rating Terminals	8A/250VAC
Cable entry	2x2.5mm ² Solid or Standard
Terminal protection	IP20
Material	PA66 UL94-V0

TYPE NO.	DESCRIPTION	SIZE
CVB225/KIT	Complete plastic box	22.5x82x101.75mm
CVB450/KIT	Complete plastic box	45x82x101.75mm
CVBPP4	4 way perforated	CVB VENT PLATE
CVBPP4	4 way closed plate	CVB BLIND PLATE
CVBPP12	12 way closed plate	CVB BLIND PLATE LONG
CVBMSC	Prototyping Blank PCB	



ENCLOSURES

Controls Housing (DIN Rail mounting)

- 12 terminals
- Internal PCB guides
- Snap fit DIN Rail mounting fixtures
- Moulded in Grey Flame Retardant UL94-V0 PC
- Removable top cover
- Integral marker plate
- For G-rail mounting adaptors available
- Terminals have PCB pins to minimise internal wiring

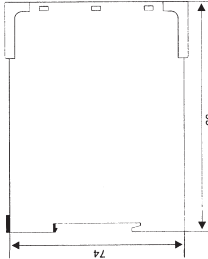
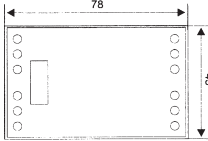
CCH12



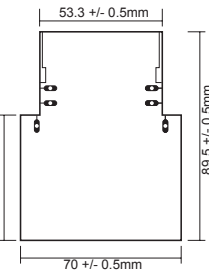
TYPE NO.	DESCRIPTION
CCH12	12 terminal controls housing

SPECIFICATION

Rating		250VAC	10A
Cable entry	Solid	2x2.5 mm ²	
	Stranded	2x1.5mm ²	



Maximum pcb board dims

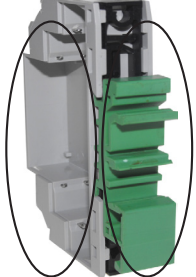


DIN Rail Adaptor

A one piece adaptor to adapt relay bases and enclosures to G rail and mini din rails

- Snap fit Din Rail mounting fixtures
- Moulded in Flame retardant UL 94-V0
- Symmetrical (35mm)
- Asymmetrical (G-rail)
- Mini Symmetrical (15mm)

CDR/Adaptor



TYPE NO.	DESCRIPTION
CDR/Adaptor	DIN Rail Adaptor

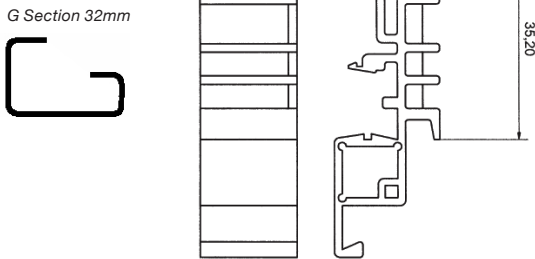
Mini Top Hat 15mm



Standard Top Hat 35mm



G Section 32mm



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Basic Construction

Day 1

Week 1

Week 2-3

Complex Construction

Week 1

Week 2

Week 3-4



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Ver 1.1



PCB
TERMINAL
BLOCKS

INTER-
CONNECTION

FUSES &
FUSE-
HOLDERS

LEDs &
INDICATORS

MINIATURE
SWITCHES

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ABSORBENT GLASS MATT (AGM) BATTERIES

6V Rated
12V Rated

BEL06
BEL12 p197
p197

ELECTRIC VEHICLE BATTERIES

6V Rated
12V Rated

BEV06
BEV12 p199
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GELLED ELECTROLYTE BATTERIES (DEEP CYCLE)

6V Rated
12V Rated

BEG06
BEG12 p201
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SOLAR GEL BATTERIES

12V Rated

BES12 p204

BATTERY BALANCER

CEQ12A p205

RECHARGEABLE LANTERN BATTERY

Lantern Battery
Double Charger

BEL060040S
BEL06/PS p206
p206

BATTERY CONNECTORS

Housings

15A-45A Single or Multipole
50A-75A Single or Multipole
33A-50A 2 Pole
80A-175A 2 Pole
250A-350A 2 Pole

CBC1A p207
CBC2 p207
CBC3 p207
CBC4 p208
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CBCAG p208
CBCDC p208
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Contacts
Rubber Dust Caps
Connector Handles

BATTERIES

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BATTERY HOLDERS

HL24010056 p209
HL24010057 p209
HL24010058 p209
HL24010059 p209
HL24010060 p209

BATTERIES

Overview of CamdenBoss Batteries

CamdenBoss offers a range of sealed rechargeable 6V and 12V Absorbent Glass Matt (BEL) and Gelled Electrolyte batteries (BEG), with specialist batteries constructed for Electric Vehicles (BEV) and Solar (BES) applications, accompanied by Lantern Batteries and Charger, Battery Balancer and Connectors.

Typical Applications for CamdenBoss batteries

BEL

Emergency lighting
Computer backup
Marine equipment
Vending machines
Remote telemetry
Access control
Uninterruptible power supplies
Rehabilitation equipment
Control equipment
Cathodic protection
Navigation aids

BEV

Forklifts
Golf carts
Electric Motorcycles
Power tools
Trolley motors
Floor sweepers
Mobility Scooters
Wheelchairs

BEG

Cycling/float service
Residential
Refrigeration
Telecommunications
Wind power
Engine starting
Water pumping
Road side cabinets
Portable medical equipment

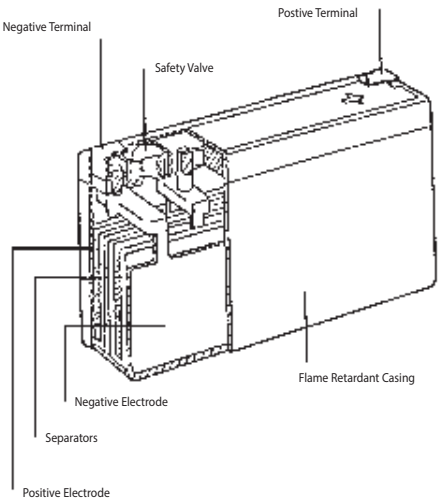
BES

Photovoltaic power
Power plants in remote villages
Transportation signal installations
Telecommunication services
Cellular transmission stations
Street and garden lighting
Hybrid power supplies

Battery Construction

Absorbent Glass Matt (BEL) and Microporous Duroplastic (BEG) separator construction.
Acid paste contained in BEL batteries and Gelled Electrolyte in BEG batteries provide a non-spillable, leak proof and maintenance free construction.
Low self-discharge rate typically less than 3% per month, ensures long storage life.
No need for forced venting, low pressure relief valves for gassing and seals to prevent oxygen ingress.
Supplied with fitted terminal covers to insulate and protect in transit.

Batteries must be stored in a charged condition. Minimum cell voltage in storage (self-discharging) 2.0 Volt/Cell.
During storage batteries must have top-up charge at given intervals and be stored away from heat sources and direct sunlight.



STORAGE TEMPERATURE	CHARGE INTERVAL
less than 20°	typically 9 months
20° - 30°	typically 6 months
30° - 40°C	typically 3 months

BATTERIES

Absorbent Glass Mat (AGM) Batteries

Robust sealed non-spillable maintenance free valve regulated recombinant batteries. Ideal for starting, stationary, deep-cycle and high current, high power applications.

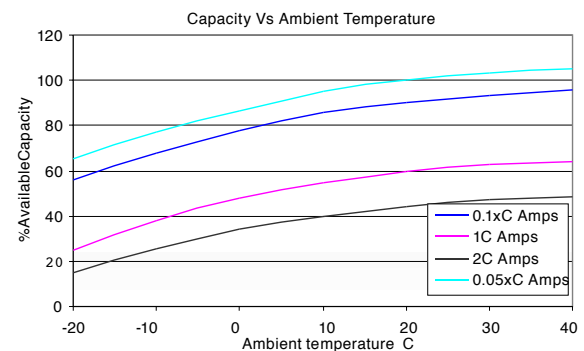
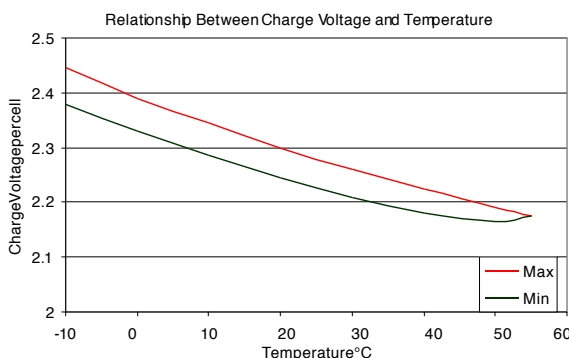
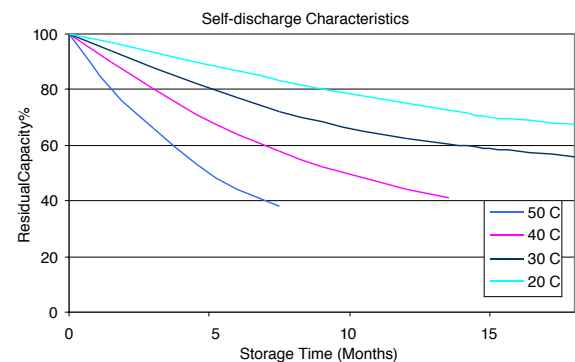
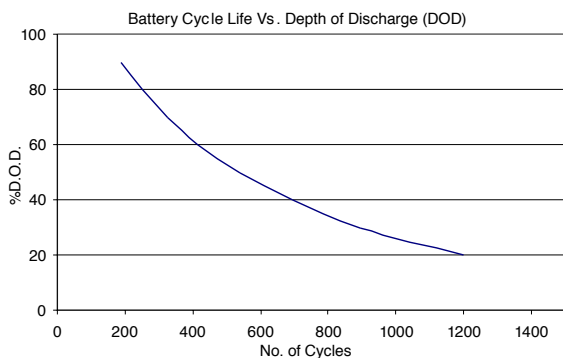
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- Non-hazardous
- Thermal stability, vibration and shock-resistant
- Threaded insert or faston terminals as standard
- Flag, automotive, J type, J type adapter terminals to order
- Lower cost when compared to Gelled Electrolyte batteries
- Superior performance for shorter duration/higher current discharges
- Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)

SPECIFICATION

Nominal Voltage	BEL060013-BEL060120 BEL120180-BEL122300	6V 12V
Battery life	BEL060013-BEL060120 BEL120180-BEL122300	5 Years 12 Years
Operating temperature	BEL060013-BEL060120 BEL120180-BEL122300	-20°C to 50°C -10°C to 45°C
Grid alloy		Calcium/Tin lead alloy
Plates		Flat pasted
Separator		Absorbent Glass Mat
Active material		High purity lead
Case and cover		ABS (V0 on request)
Charge Voltage		Float 2.27-2.30 VPC @ 20°C Cycling 2.4 VPC @ 20°C Max 2.4 VPC Max ripple 5%
Electrolyte		Sulphuric acid
Venting valve		EPDM Rubber release pressure at 1.5 to 2 psi resealing at 1psi
Terminals		Epoxy sealed
Torque settings		5-7Nm

Typical Applications:

- Cycling/Float Service
- Telecommunications
- Solar and wind
- Emergency lighting
- Computer backup
- Marine equipment
- Power tools
- Vending machines
- Power supplies
- Remote telemetry
- Access control
- Medical equipment
- Control equipment
- Cathodic protection
- Navigation aids
- Cellular Radio Stations
- Security systems



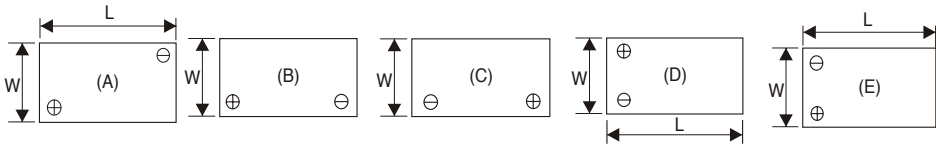
BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEL060013	6V	1.2Ah	97mm	24mm	52mm	0.31kg	B - T1	50Ω	0.48A	N/A	60A	40
BEL060032	6V	3.2Ah	134mm	34mm	61mm	0.65kg	B - T1	30Ω	0.8A	N/A	160A	20
BEL060045	6V	4.5Ah	70mm	47mm	101mm	0.77kg	A - T1	22Ω	1.8A	N/A	225A	20
BEL060072	6V	7Ah	151mm	34mm	94mm	1.2kg	B - T1	14Ω	1.8A	N/A	350A	10
BEL060100	6V	10Ah	151mm	50mm	94mm	1.67kg	B - T1	10Ω	4A	N/A	500A	10
BEL060120	6V	12Ah	151mm	50mm	94mm	1.85kg	B - T1	10Ω	4.8A	N/A	600A	10
BEL120013	12V	1.2Ah	97mm	43mm	52mm	0.55kg	E - T1	95Ω	0.48A	N/A	60A	15
BEL120022	12V	2.3Ah	178mm	35mm	61mm	0.85kg	B - T1	55Ω	0.92A	N/A	80A	20
BEL120033	12V	3.2Ah	134mm	67mm	61mm	1.3kg	E - T1	68Ω	1.28A	N/A	160A	10
BEL120050	12V	5Ah	90mm	70mm	101mm	1.8kg	B - T1	34Ω	2A	N/A	250A	10
BEL120060	12V	6.5Ah	151mm	65mm	94mm	1.9kg	D - T2	25Ω	2.5A	N/A	315A	4
BEL120072	12V	7Ah	151mm	65mm	93.5mm	2.2kg	D - T1	18Ω	1.7A	N/A	380A	8
BEL120100	12V	10Ah	151mm	98mm	95mm	3.25kg	Faston	30Ω	4A	N/A	500A	4
BEL120120	12V	12Ah	151mm	98mm	95mm	3.67kg	D - T2	17Ω	4.8A	N/A	600A	4
BEL120170	12V	17Ah	181mm	77mm	167mm	5.5kg	M5	16Ω	5.1A	N/A	850A	2
BEL120180	12V	17Ah	181mm	77mm	167mm	5.3kg	C - M5	16.5Ω	6.8A	144A	850A	2
BEL120260A	12V	26Ah	165mm	170mm	125mm	7.6Kg	C - M5	6.5Ω	6.5A	228A	900A	1
BEL120280	12V	28Ah	165mm	125mm	175mm	9.3Kg	M6	11Ω	11.2A	N/A	1400A	1
BEL120330A	12V	33Ah	195mm	130mm	155mm	11kg	B-M6	10Ω	9.9A	258A	850A	1
BEL120400	12V	40Ah	197.5mm	165.5mm	170mm	14.7kg	M6	9.5Ω	12A	N/A	900A	1
BEL120450	12V	47.4Ah	197.5mm	165.5mm	170mm	14.6kg	C-M6	7.5Ω	13.5A	345A	1050A	1
BEL120550	12V	55Ah	229mm	138mm	208mm	18.5kg	B - M5	5.8Ω	16.5A	466A	1400A	1
BEL120650	12V	65Ah	350mm	167mm	179mm	20.4kg	M6	5.5Ω	26A	N/A	1700A	1
BEL120750	12V	75Ah	258mm	166mm	206mm	23.5Kg	M- M6	5.7Ω	22.5A	557A	1800A	1
BEL120900	12V	90Ah	306mm	169mm	210mm	30kg	B - M6	5.2Ω	27A	680A	2000A	1
BEL121100	12V	100Ah	330mm	171mm	214mm	32kg	B - M8	4Ω	27A	804A	3000A	1
BEL121200	12V	120Ah	410mm	176mm	224mm	36.5kg	B - M8	3Ω	30A	877A	3300A	1
BEL121350	12V	134Ah	341mm	173mm	283mm	40kg	B - M8	2.73Ω	35A	965A	3750A	1
BEL121500	12V	150Ah	482mm	170mm	240mm	44.8kg	B - M8	2.5Ω	38A	1014A	4200A	1
BEL121600	12V	175Ah	530mm	209mm	215mm	55.5kg	E - M8	2Ω	40A	1021A	4700A	1
BEL122300	12V	230Ah	520mm	269mm	203mm	72.6kg	E - M8	<2Ω	57A	1057A	5900A	1

T1 = Faston Tab No.187 (4.8mm)

T2 = Faston Tab No.250 (6.3mm)

NB: Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)



BATTERIES

Electric Vehicle Batteries

High performance sealed non-spillable maintenance free valve regulated recombinant batteries. Deep cycles batteries designed to deliver maximum capacity within five cycles, ideal for use in electric vehicles

- Absorbent glass mat construction
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- High deep-discharge capability
- Exceptional durability and deep cycle ability
- Ideal for repeat cycling
- Excellent for long discharges
- Low self-discharge, long storage life
- Vibration and shock-resistant
- Threaded insert or faston terminals as standard
- Flag, automotive, J type, J type adaptor terminals to order
- Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)

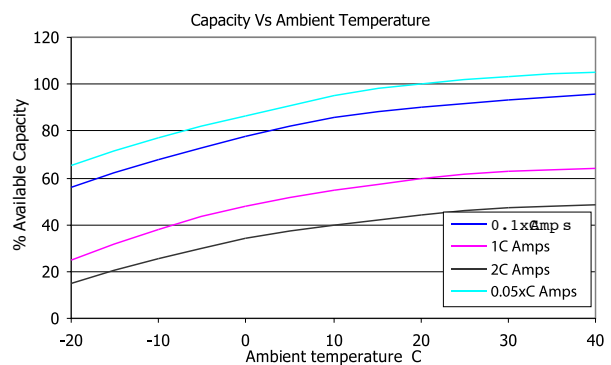
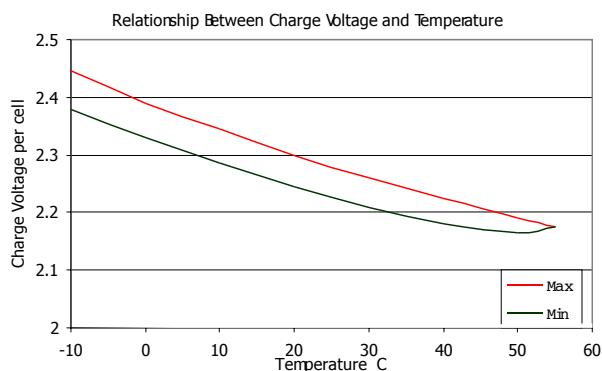
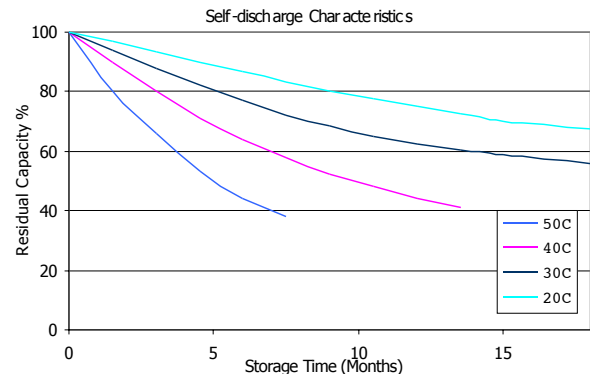
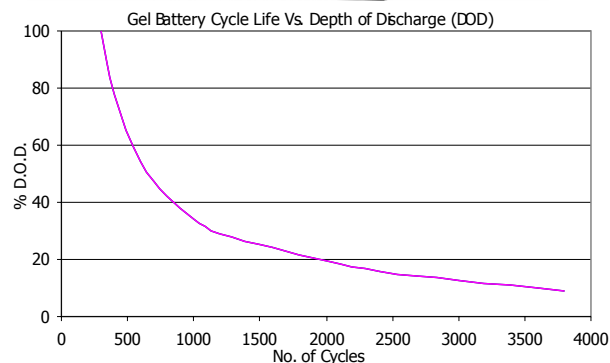


SPECIFICATION

Nominal Voltage	BEV061100-BEV062000	6V
	BEV120075-BEV123000	12V
Operating temperature	-10°C to 45°C	
Grid alloy	Calcium/Tin alloy	
Plates	Flat pasted	
Separator	Absorbent Glass Mat	
Case and cover	ABS (V0 on request)	
Charge Voltage	Float 2.27-2.30 VPC @ 20°C	
	Cycling 2.4 VPC @20°C	
	Max 2.4 VPC	
Electrolyte	Sulphuric acid	
Venting valve	EPDM Rubber	
	release pressure at 1.5 to 2 psi	
	resealing at 1 psi	
Terminals	Epoxy sealed	
Torque settings	5-7Nm	

Typical Applications:

- Electric Motorcycles
- Forklifts
- Golf carts
- Power tools
- Trolley motors
- Floor sweepers
- Mobility Scooters
- Wheelchairs
- Uninterruptible power supply

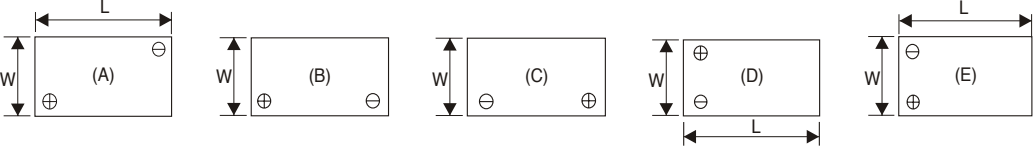


BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEV061600	6V	180Ah	306mm	168mm	220mm	26.6kg	M8	50A	1014A	5000A	1
BEV120075	12V	9Ah	151mm	65mm	94mm	2.8kg	D-F1	1.5A	-	275A	8
BEV120120	12V	12Ah	151mm	98mm	95mm	4.4kg	D-T2	4.8A	-	600A	4
BEV120180	12V	17Ah	181mm	77mm	167mm	5.9kg	M5	6.8A	144A	950A	2
BEV120260	12V	24Ah	166mm	175mm	125mm	9.2kg	M5	9.6A	228A	1300A	1
BEV120330	12V	30Ah	196mm	131mm	160mm	10.3kg	M6	7A	258A	1100A	1
BEV120330A	12V	33Ah	195mm	130mm	155mm	11kg	M6	9.9A	-	850A	1
BEV120450	12V	40Ah	197.5mm	165.5mm	170mm	14.7kg	M6	12A	345A	900A	1
BEV120550	12V	55Ah	228mm	138mm	208mm	18.5kg	M6	14A	466A	1700A	1
BEV120650	12V	77Ah	272mm	165mm	188mm	21.7kg	M8	20A	602A	2400A	1
BEV120700	12V	75.6Ah	350mm	167mm	179mm	22.5kg	M6	24A	557A	1900A	1
BEV120800	12V	82Ah	260mm	168mm	211mm	25.5kg	M8	22A	664A	2650A	1
BEV121000	12V	90Ah	306mm	169mm	210mm	29kg	M8	25A	751A	2900A	1
BEV121100	12V	100Ah	330mm	171mm	214mm	32kg	M8	27A	804A	3000A	1
BEV121200	12V	120Ah	410mm	176mm	224mm	36.5kg	M8	30A	951A	4200A	1
BEV121500	12V	150Ah	482mm	170mm	240mm	47kg	M8	40A	965A	4700A	1
BEV121600	12V	164Ah	530mm	209mm	214mm	54.2kg	M8	50A	985A	5400A	1

T1 = Faston Tab No.187 (4.8mm) T2 = Faston Tab No.250 (6.3mm)

NB: Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)



BATTERIES

Gelled Electrolyte Batteries

High performance sealed valve regulated recombinant batteries. Ideal for repeated cycling, heavy deep-discharge, high temperature and motive power applications.

- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- High deep-discharge capability
- Wide range of operating temperatures, resistant to freezing
- Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)

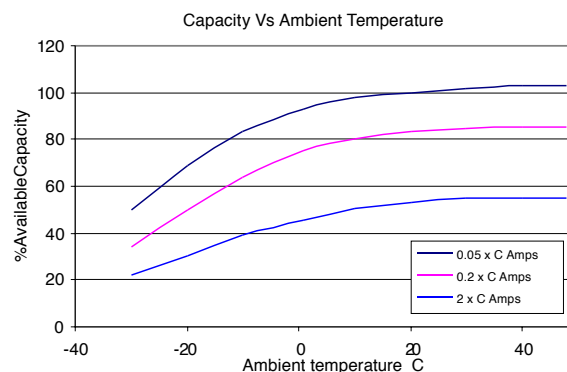
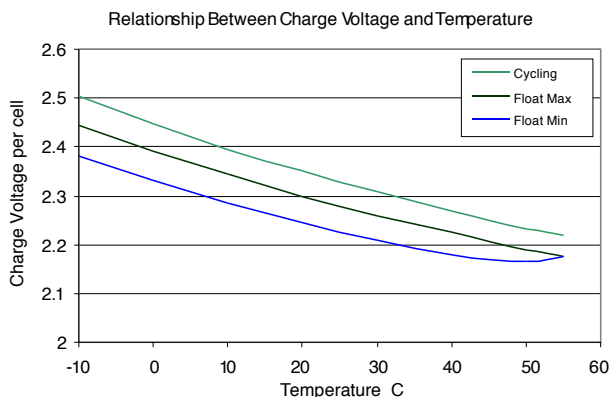
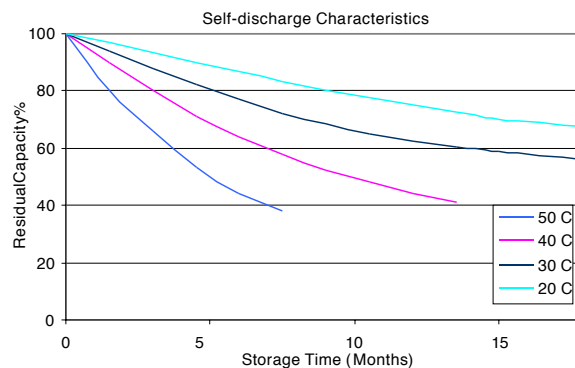
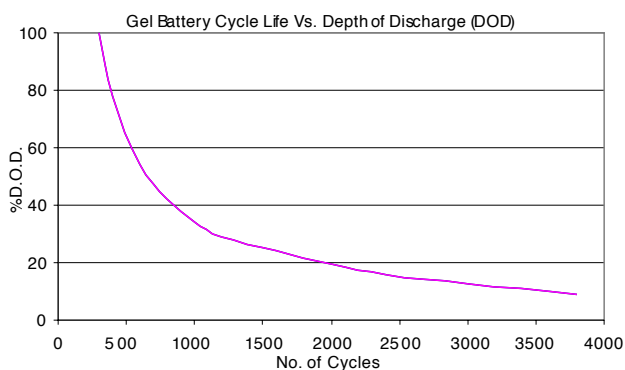


SPECIFICATION

Nominal Voltage	6V & 12V
Battery life	12 Years
Operating temperature	-20°C to 50°C
Grid alloy	Calcium/Tin lead alloy
Plates	Flat pasted
Separator	Microporous Duroplastic
Active material	High purity lead
Case and cover	ABS (V0 on request)
Charge Voltage	Float 2.27-2.30 VPC @ 20°C Cycling 2.4 VPC @20°C Max 2.4 VPC
Electrolyte	Sulphuric acid
Venting valve	EPDM Rubber release pressure at 1.5 to 2 psi resealing at 1psi
Terminals	Epoxy sealed
Torque settings	5-7Nm

Typical Applications:

- Cycling/float service
- Residential
- Refrigeration
- Telecommunications
- Wind
- Engine starting
- Water pumping
- Roadside cabinets
- Cellular radio stations
- Cathodic protection
- Photovoltaic Panels
- Portable medical equipment
- Navigation aids



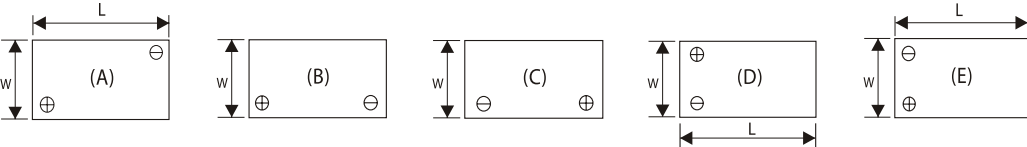
BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	CCA AT 0°C	SHORT CIRCUIT	QTY PER BOX
BEG060075	6V	6.5Ah	151mm	34mm	94mm	1.2kg	B - T1	14mΩ	1.5A	N/A	350A	10
BEG060100	6V	10Ah	151mm	34mm	94mm	1.67kg	B - T1	10mΩ	4A	N/A	500A	10
BEG060120	6V	12Ah	151mm	50mm	94mm	1.85kg	B - T2	10mΩ	4.8A	N/A	600A	10
BEG120075	12V	8Ah	151mm	65mm	94mm	2.5kg	D - T1	20mΩ	3.2A	N/A	400A	8
BEG120120	12V	12Ah	151mm	98mm	95mm	4.4kg	D - T2	16mΩ	4.8A	N/A	600A	4
BEG120180	12V	17Ah	181mm	77mm	167mm	5.5kg	C - M5	16mΩ	6.8A	270A	850A	2
BEG120180A	12V	17Ah	181mm	77mm	167mm	5.7Kg	C - M5*	16.5mΩ	5.1A	270A	850A	2
BEG120260	12V	24Ah	166mm	175mm	125mm	8.1kg	C - M5	12mΩ	9.6A	300A	1200A	1
BEG120330A	12V	33Ah	195mm	130mm	155mm	11kg	B - M6	10mΩ	9.9A	320A	850A	1
BEG120450	12V	45Ah	197mm	165mm	170mm	14.6g	C - M6	7.5mΩ	13.5A	350A	1050A	1
BEG120550	12V	55Ah	229mm	138mm	208mm	18.5kg	B - M6	5.8mΩ	14A	380A	1400A	1
BEG120700	12V	60Ah	258mm	166mm	206mm	24kg	C - M6	5mΩ	18A	550A	2100A	1
BEG120800	12V	75Ah	258mm	166mm	206mm	23.5kg	B - M6	5mΩ	20A	620A	2400A	1
BEG120900	12V	90Ah	306mm	169mm	210mm	30kg	B - M6	4mΩ	22A	680A	2650A	1
BEG121000	12V	90Ah	306mm	169mm	210mm	30kg	B - M6	5mΩ	25A	780A	2900A	1
BEG121100	12V	100Ah	330mm	171mm	214mm	32kg	B - M6	5mΩ	30A	960A	2100A	1
BEG121200	12V	126Ah	410mm	176mm	227mm	38kg	B - M6	4.3mΩ	37.8A	1020A	2250A	1
BEG121500	12V	156Ah	482mm	170mm	240mm	47kg	B - M8	3.8mΩ	46.8A	1300A	2700A	1
BEG122000	12V	200Ah	520mm	238mm	218mm	65kg	E - M8	<36mΩ	50A	1670A	5400A	1

T1 = Faston Tab No.187 (4.8mm) T2 = Faston Tab No.250 (6.3mm)

* = BEG120180A has a horizontal maintained M5 terminal

NB: Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)



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BATTERIES

Solar Gel Batteries

Sealed non-spillable maintenance free valve regulated recombinant solar batteries. Specially constructed for demanding applications subjected to extreme temperatures, unpredictable charging, daily cycling & partial charge and discharge

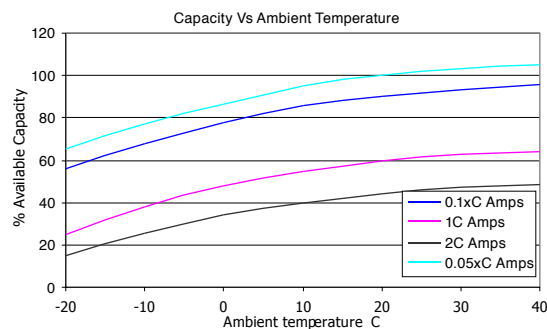
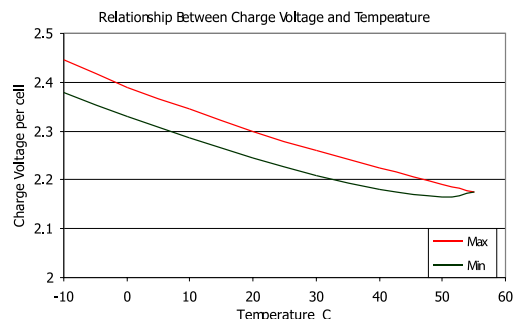
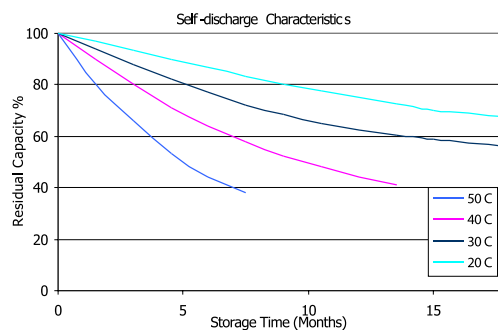
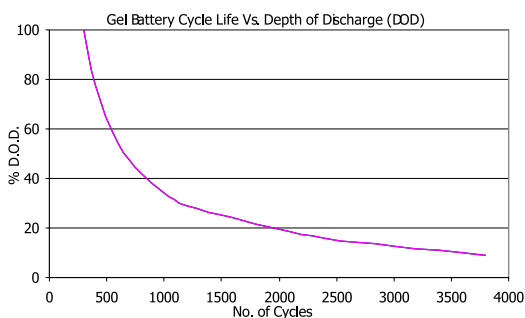
- Utilises the latest battery technology
- Completely maintenance free, no need to add water
- Spill and leak-proof, multi-position usage
- Low self-discharge, long storage life
- Gelled thixotropic electrolyte
- Increased durability and deep cycle ability
- Valve regulated to 2.5psi max
- No equalization charge necessary
- Zero stratification
- Vibration and shock-resistant
- Good tolerance to unpredictable charging regimes
- Wide range of operating temperatures, resistant to freezing
- Batteries have terminal options to meet the multitude of connection requirements.
- Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)

Typical Applications:

- Photovoltaic power supply of:
- Power plants in remote villages
- Signal Installations in air, sea, road and railway transport
- Radio relay stations for telecommunications
- Cellular roadside and roof top transmission/repeater stations
- Street and garden lighting
- Hybrid power supplies

SPECIFICATION

Nominal Voltage	6 & 12 Volts	
Battery life	BES120075 - BES120120	5 Years
	All others	12 years
Operating temperature	-20°C to 50°C	
Grid alloy	Calcium/Tin lead alloy	
Plates	Flat Pasted	
Separator	Gel-Microporous Duroplastic	
Active material	Very high purity lead	
Case and cover	ABS (VO on request)	
Charge Voltage	Cycling 2.4 VPC @20°C	
	Max 2.4 VPC	
Electrolyte	Sulphuric Acid	
Venting valve	EPDM Rubber	
	1.5 to 2psi (10.5 - 14 Kpa)	
	release pressure.	
	Resealing at 1 psi (7 Kpa)	
Terminals	Epoxy Sealed	
Torque settings	5-7Nm	

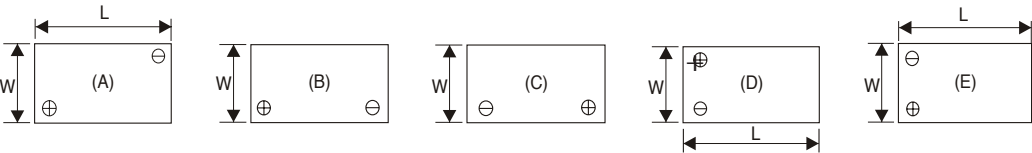


BATTERIES

	NOMINAL VOLTAGE	NOMINAL CAPACITY	LENGTH	WIDTH	HEIGHT	WEIGHT	TERMINAL DETAILS	INTERNAL RESISTANCE	CHARGE CURRENT MAX	SHORT CIRCUIT	QTY PER BOX
BES120075	12V	7.4Ah	150mm	63mm	99mm	2.5kg	D-T1	28mΩ	1.5A	275A	8
BES120120	12V	11.4Ah	151mm	98mm	95mm	3.67kg	D-T1/T2	17mΩ	4.8A	600A	4
BES120180	12V	16.8Ah	181mm	77mm	167mm	5.5kg	M5	16mΩ	6.8A	850A	2
BES120260	12V	26Ah	165mm	174mm	125mm	8.1kg	M5	9.5mΩ	6.5A	900A	1
BES120330	12V	31.1Ah	196mm	131mm	160mm	10.3kg	M6	8.5mΩ	8A	1100A	1
BES120330A	12V	33Ah	195mm	130mm	155mm	11.0kg	M6	10mΩ	9.9A	850A	1
BES120440	12V	39Ah	198mm	167mm	157mm	13.0kg	M6	7.5mΩ	11A	1400A	1
BES120450	12V	41.6Ah	197mm	165mm	170mm	14.6kg	M6	7.5mΩ	12.5A	1050A	1
BES120550	12V	51.7Ah	229mm	138mm	208mm	18.5kg	M6	5.8mΩ	15.5A	1400A	1
BES120700	12V	61Ah	349mm	168mm	175mm	21.0kg	M6	6.5mΩ	14A	1750A	1
BES120750	12V	74.1Ah	258mm	166mm	206mm	24kg	M6	5.7mΩ	22.5A	1800A	1
BES121000	12V	90Ah	306mm	169mm	210mm	29kg	M8	4mΩ	22A	2650A	1
BES121100	12V	101Ah	327mm	171mm	206mm	30kg	M6	5mΩ	25A	2900A	1
BES121200	12V	110Ah	409mm	177mm	225mm	36.0kg	M6	4mΩ	27A	3000A	1
BES121500	12V	150Ah	482mm	170mm	240mm	44.8kg	M8	2mΩ	38A	4200A	1
BES121600	12V	151Ah	530mm	209mm	214mm	53.7kg	M8	2mΩ	40A	4700A	1

T1 = Faston Tab No.187 (4.8mm)

NB: Total height does not allow for terminal bolt when screwed into battery terminals (Relevant for screw terminal batteries)



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BATTERIES

Battery Balancer

When charging two or more batteries in series one can become under-charged and one over-charged.

This imbalance is self-perpetual and shortens battery life due to drying out and sulphating.

The CEQ is an electronic device which measures and equalises the charging voltage within 0.1V, ensuring balanced charging.

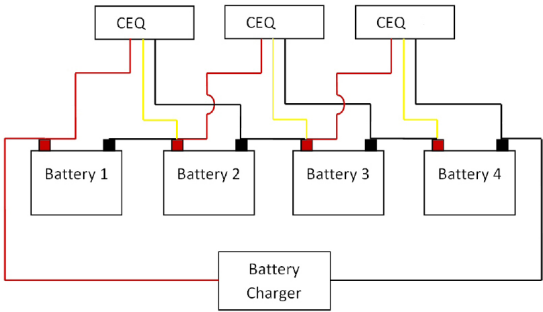
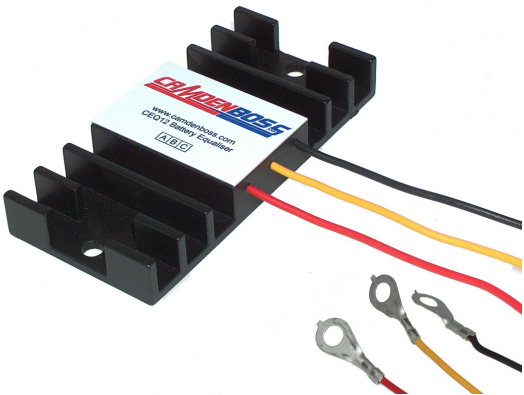
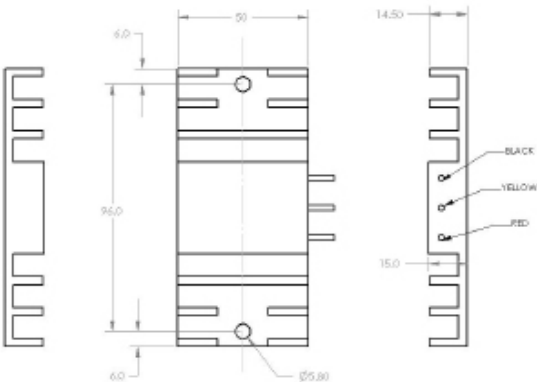
The device uses a bridge configuration which balances the voltage between batteries by shunting current from one battery (the higher voltage one) to the other (the lower voltage one) until the differential voltage is as close to zero as possible.

Unlike some other technologies the CEQ's system losses are limited to only standard semiconductor volt drops which are manifested in heat from the body of the device. Most of the current is simply shunted around between the batteries as necessary.

- Improves performance and extends life of batteries charged in series by up to 20%
- Can be used with two or more batteries connected in series
One balancer used between each pair of batteries
- M6 ring terminations for ease of connection, three colour coded 57mm leads
- Dust and water sealed, suitable for damp environments
- Ideal for electric vehicles, uninterrupted power supplies, marine applications

SPECIFICATION	CEQ6A	CEQ8A	CEQ12A	CEQ15A
Voltage range	4.5-7.5V DC	6.0-10V DC	8-16V DC	10.5-17V DC
Device switch-on voltage	6V	8V	12.8V	14.8V
Differential sensitivity			>50mV	
Maximum flow current			1A	
Operating temperature			-40°C to +85°C	
Weight			120g	
Lead wiring		Red Yellow Black	Battery 1 Positive Battery 1 Negative & Battery 2 Positive (connected in series) Battery 2 Negative	

TYPE NO.	DESCRIPTION
CEQ6A	6V Battery Balancer
CEQ8A	8V Battery Balancer
CEQ12A	12V Battery Balancer
CEQ15A	15V Battery Balancer



BATTERIES

Rechargeable Lantern Battery

- Protection device fitted, disconnects the battery internally in the event of a short circuit which resets itself when the fault condition is removed. Normal operation can then resume
- Absorbent glass mat construction. This contains the electrolyte giving a non-spillable, maintenance free construction
- Can be used in any orientation
- Low pressure relief valve opens for gassing and seals to prevent oxygen ingress
- Supplied with terminal covers to insulate and protect in transit
- Can be stored in charged condition up to 6 months (20°C) before charge
- Supplied singularly or bulk pack of 20
- Charger available, can charge one or two batteries simultaneously

SPECIFICATION		
Nominal Voltage		6V
Nominal Capacity		4Ah (20hr)
Charge Voltage	Float	6.75 - 6.9V
	Cyclic	7.2 - 7.35V
Max Charge Current		1A
Max Discharge Current		1A
Dimensions	Length	67.5mm
	Width	67.5mm
	Height	97.5mm (112mm)
Weight		0.85kg

TYPE NO.	DESCRIPTION
BEL060040S	Lantern Battery
BEL06/PS	Double Charger

Typical Applications:

- Communications equipment
- Emergency lighting systems
- Portable lighting
- Marine equipment
- Solar power systems
- Toys and models
- Lanterns



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BATTERIES

Battery Connectors

- Wide current range 15A to 350A, 600V
- UL94 V0 housing material in various colour options
- Contacts are copper silver plated or copper tin plated
- Same colour mating prevents misconnection
- Genderless assembly
- Simple and fast assembly
- Single pole, 2 pole or multipole options
- Operating temperature -20°C to +125°C
- Wire range AWG 20-6, AWG 16-12, AWG 14-10
- Supplied one part for each part number, in bulk, other options to order



15A - 45A Single or Multipole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC1A/YW	Yellow	25mm	9mm	9mm
CBC1A/OR	Orange	25mm	9mm	9mm
CBC1A/GN	Green	25mm	9mm	9mm
CBC1A/BK	Black	25mm	9mm	9mm
CBC1A/BU	Blue	25mm	9mm	9mm
CBC1A/GY	Grey	25mm	9mm	9mm
CBC1A/WH	White	25mm	9mm	9mm
CBC1A/RD	Red	25mm	9mm	9mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/ DISCONNECT
CBCAG1	20-16AWG	15A	4.45mm	25lb	3lb
CBCAG2	12-16AWG	30A	4.45mm	25lb	3lb
CBCAG3	10-14AWG	45A	4.45mm	25lb	3lb

50A - 75A Single or Multipole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC2/GN	Green	48mm	17mm	17mm
CBC2/BK	Black	48mm	17mm	17mm
CBC2/BU	Blue	48mm	17mm	17mm
CBC2/GY	Grey	48mm	17mm	17mm
CBC2/WH	White	48mm	17mm	17mm
CBC2/RD	Red	48mm	17mm	17mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/ DISCONNECT
CBCAG5	12-10AWG	50A	11mm	50lb	7lb
CBCAG8	8AWG	60A	11mm	50lb	7lb
CBCAG14	6AWG	75A	11mm	50lb	7lb

35A - 50A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC3/YW	Yellow	48mm	36.4mm	15.9mm
CBC3/OR	Orange	48mm	36.4mm	15.9mm
CBC3/GN	Green	48mm	36.4mm	15.9mm
CBC3/BK	Black	48mm	36.4mm	15.9mm
CBC3/BU	Blue	48mm	36.4mm	15.9mm
CBC3/GY	Grey	48mm	36.4mm	15.9mm
CBC3/WH	White	48mm	36.4mm	15.9mm
CBC3/RD	Red	48mm	36.4mm	15.9mm

CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/ DISCONNECT
CBCAG5	12-10AWG	35A	11mm	50lb	15lb
CBCAG8	8AWG	45A	11mm	50lb	15lb
CBCAG14	6AWG	50A	11mm	50lb	15lb



BATTERIES

80A - 175A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC4/YW	Yellow	79.2mm	53.7mm	24.8mm
CBC4/OR	Orange	79.2mm	53.7mm	24.8mm
CBC4/BU	Blue	79.2mm	53.7mm	24.8mm
CBC4/GY	Grey	79.2mm	53.7mm	24.8mm
CBC4/RD	Red	79.2mm	53.7mm	24.8mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/ DISCONNECT
CBCAG14M	6AWG	80A	14.6mm	300lb	25lb
CBCAG22	4AWG	125A	19mm	300lb	25lb
CBCAG38	2AWG	150A	19mm	300lb	25lb
CBCAG60	1/0AWG	175A	19mm	300lb	25lb

250A - 350A 2-Pole

HOUSING	COLOUR	LENGTH	WIDTH	HEIGHT
CBC5/YW	Yellow	108mm	69.8mm	33.3mm
CBC5/OR	Orange	108mm	69.8mm	33.3mm
CBC5/GN	Green	108mm	69.8mm	33.3mm
CBC5/BU	Blue	108mm	69.8mm	33.3mm
CBC5/GY	Grey	108mm	69.8mm	33.3mm
CBC5/RD	Red	108mm	69.8mm	33.3mm



CONTACT	BARREL	RATING	MAX WIRE	RETENTION FORCE	CONNECT/ DISCONNECT
CBCAG70	2/0AWG	250A	28mm	500lb	30lb
CBCAG80	3/0AWG	275A	28mm	500lb	30lb
CBCAG100	4/0AWG	300A	28mm	500lb	30lb
CBCAG150	250/300AWG	350A	28mm	500lb	30lb

Rubber Dust Caps

TYPE NO.	COLOUR	LENGTH	WIDTH	HEIGHT
CBCDC3	for CBC3	69mm	38mm	30mm
CBCDC4	for CBC4	69mm	38mm	30mm
CBCDC5	for CBC5	69mm	38mm	30mm



Connector Handles

TYPE NO.	COLOUR	LENGTH	WIDTH	HEIGHT
CBCHD3	for CBC3	48.7mm	10mm	58.7mm
CBCHD4	for CBC4	48.7mm	10mm	58.7mm
CBCHD5	for CBC5	48.7mm	10mm	58.7mm



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BATTERIES

Battery Holders

PP3 Block Clip Battery Holder

- For 9V batteries.
- Wire length 160mm

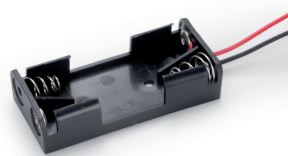
TYPE NO.	DESCRIPTION
HL24010056	PP3 Block Clip



x2 AAA Battery Holder

- For two AAA size batteries
- Dimensions 54 x 24 x 12 mm
- Wire length 200mm

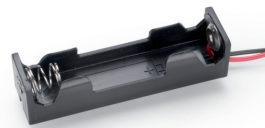
TYPE NO.	DESCRIPTION
HL24010057	x2 AAA Battery Holder



x1 AA Battery Holder

- For one AA size battery.
- Dimensions 58 x 16 x 13mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010058	x1 AA Battery Holder



x2 AA Battery Holder

- For two AA size batteries
- Dimensions 59 x 25 x 16mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010059	x2 AA Battery Holder



x4 AA Battery Holder

- For four AA size batteries
- Dimensions 59 x 31 x 24.5mm
- Wire length 200mm

TYPE NO.	DESCRIPTION
HL24010060	x4 AA Battery Holder



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CHASSIS MOUNTED TRANSFORMERS

Single Primary
Dual Primary

CTFCS
CTFC

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.PCB MOUNTING ENCAPSULATED TRANSFORMERS

CTFE

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PCB MOUNTING TRANSFORMERS TRANSFORMER CONNECTORS MARKERS

CTFP
CTT
CTTM

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TRANSFORMERS



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ELECTRONICS & ENCLOSURES

TRANSFORMERS

Chassis Mounted Transformers

- Single 230V & dual 115V primary windings
- Double section imperial bobbins
- 6 to 200VA power, 50/60Hz
- Temperature class B (130° C)
- Dielectric strength 3750V_{rms}
- Manufactured and tested in accordance with EN60950 and EN61558

CTFC



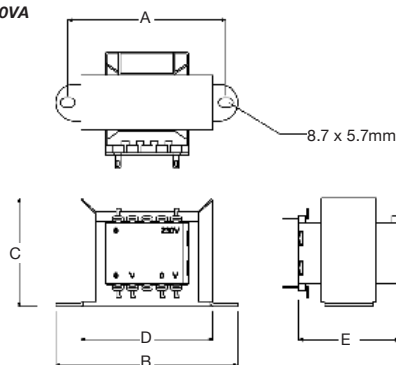
SPECIFICATION

Maximum winding temperature	55°C
Overall insulation rating	>50M Ohm (at 500V, 20°C)
Flash test (isolation test)	Primary/Secondary/Lamination 2.4KV _{rms}
Winding wire	Polyurethane coated IEC317 Grade 1
Tape	3M No 56 or 3M No 1350Y Thermosetting
Core	400/50
Finish	Ultimég 3.72 Clear

6-50 VA L-Clamps

VA RATING	REG % 2	A ±1	B ±1	C ±1	D ±1	E ±1	WEIGHT
6	24	55	68	37	45	36	170g
12	16	74	90	50	60	45	390g
20	12	74	90	50	60	52	530g
50	9	94	106	65	79	58	985g

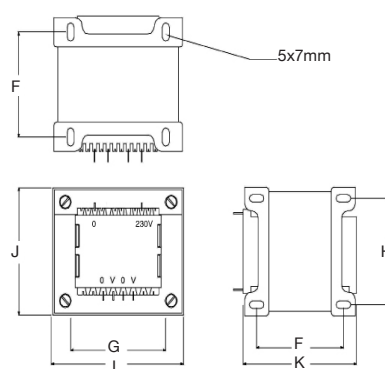
6-100VA



75 - 200VA Universal end frames

VA RATING	REG % 2	F ±1	H ±1	I ±1	J ±1	K ±1	WEIGHT
75	8	55	54	80	67	67	1400g
100	10	45	57	89	75	65	1550g
150	9	62	63	88	74	78	2100g
200	8	68	72	102	85	85	2750g

150-200VA



Single Primary

TYPE NO.	VA	OUTPUT V _{ac}
CTFCS6-5	6	5
CTFCS6-6	6	6
CTFCS6-9	6	9
CTFCS6-12	6	12
CTFCS6-15	6	15
CTFCS6-18	6	18
CTFCS6-24	6	24
CTFCS12-6	12	6
CTFCS12-9	12	9
CTFCS12-12	12	12
CTFCS12-20	12	20
CTFCS12-24	12	24

TYPE NO.	VA	OUTPUT V _{ac}
CTFCS20-6	20	6
CTFCS20-9	20	9
CTFCS20-12	20	12
CTFCS20-15	20	15
CTFCS20-18	20	18
CTFCS20-20	20	20
CTFCS20-24	20	24
CTFCS50-6	50	6
CTFCS50-12	50	12
CTFCS50-15	50	15
CTFCS50-18	50	18
CTFCS50-24	50	24

TYPE NO.	VA	OUTPUT V _{ac}
CTFCS100-9F	100	9
CTFCS100-12F	100	12
CTFCS100-18F	100	18
CTFCS100-24F	100	24
CTFCS100-50F	100	50
CTFCS150-12F	150	12
CTFCS150-18F	150	18
CTFCS150-24F	150	24
CTFCS200-9F	200	9
CTFCS200-18F	200	18
CTFCS200-24F	200	24
CTFCS200-50F	200	50

Dual Primary

TYPE NO.	VA	OUTPUT V _{ac}
CTFC6-4.5	6	4.5
CTFC6-6	6	6
CTFC6-9	6	6
CTFC6-12	6	12
CTFC6-15	6	15
CTFC6-18	6	18
CTFC6-24	6	24
CTFC12-6	12	6
CTFC12-9	12	9
CTFC12-12	12	12
CTFC12-15	12	15
CTFC12-18	12	18

TYPE NO.	VA	OUTPUT V _{ac}
CTFC12-20	12	20
CTFC12-24	12	24
CTFC20-6	20	6
CTFC20-9	20	9
CTFC20-12	20	12
CTFC20-15	20	15
CTFC20-18	20	18
CTFC20-20	20	20
CTFC20-24	20	24
CTFC50-6	50	6
CTFC50-9	50	9
CTFC50-12	50	12

TYPE NO.	VA	OUTPUT V _{ac}
CTFC50-15	50	15
CTFC50-18	50	18
CTFC50-24	50	24
CTFC75-9F	75	9
CTFC75-20F	75	20
CTFC100-9F	100	9
CTFC100-12F	100	12
CTFC100-20F	100	20

TRANSFORMERS

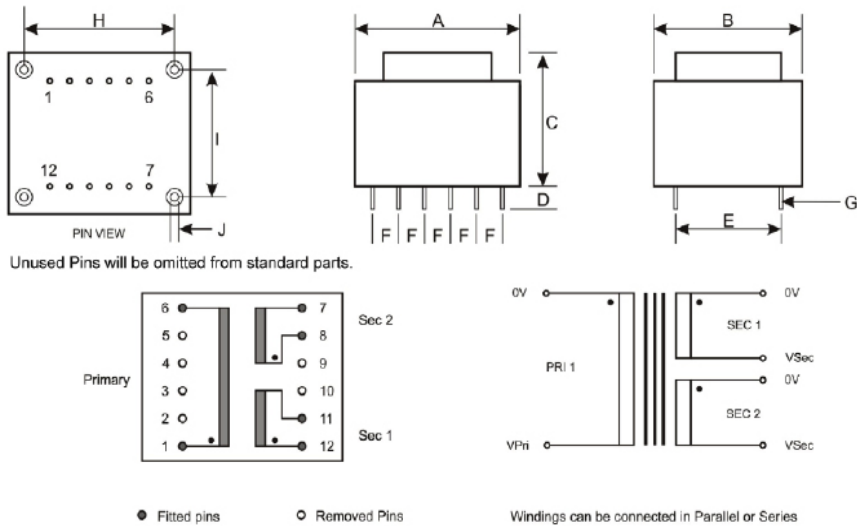
PCB Mounting Encapsulated Transformers

- Single Primary 230V windings
- Dual secondary windings
- 5,6,10VA Power @ 50/60HZ
- Temperature class B (130°C)
- Dielectric strength 3750V_{rms}
- UL94-V0 rated materials
- Manufactured and tested in accordance with UL506, EN60950 and EN61558, 

CTFE



TYPE NO.	VA RATING	A ±0.5	B ±0.5	C ±0.5	D ±1.0	E ±0.5	F ±0.2	G ±0.1	H ±1.0	I ±1.0	OUTPUT	WEIGHT
CTFE5-6	5	44	37	32	4	25	5	Sq 0.8	-	-	6	190g
CTFE5-9	5	44	37	32	4	25	5	Sq 0.8	-	-	9	190g
CTFE5-12	5	44	37	32	4	25	5	Sq 0.8	-	-	12	190g
CTFE5-15	5	44	37	32	4	25	5	Sq 0.8	-	-	15	190g
CTFE5-20	5	44	37	32	4	25	5	Sq 0.8	-	-	20	190g
CTFE6-6	6	44	37	32	4	25	5	Sq 0.8	-	-	6	190g
CTFE6-9	6	44	37	32	4	25	5	Sq 0.8	-	-	9	190g
CTFE6-12	6	44	37	32	4	25	5	Sq 0.8	-	-	12	190g
CTFE6-15	6	44	37	32	4	25	5	Sq 0.8	-	-	15	190g
CTFE6-20	6	44	37	32	4	25	5	Sq 0.8	-	-	20	190g
CTFE10-9	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	9	330g
CTFE10-12	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	12	330g
CTFE10-20	10	51	43	34.5	4	27.5	5	Sq 0.7	40	32	20	330g



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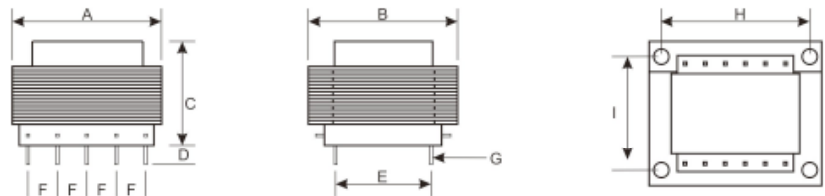
TRANSFORMERS

PCB Mounting Transformers

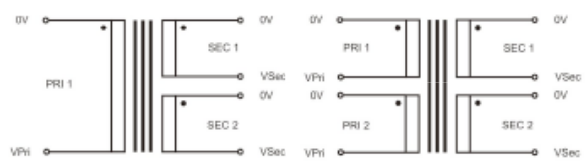
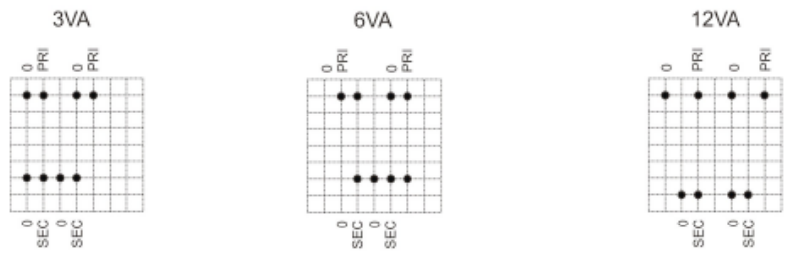
- Dual Primary 115V windings
- Dual secondary windings
- 3, 6, 12VA Power @ 50/60Hz
- Temperature class B (130°C)
- Dielectric strength 3750Vrms
- UL94-V0 rated material
- Manufactured and tested in accordance with EN60950 and EN61558, C €



TYPE NO.	VA RATING	A ±0.5	B ±0.5	C ±0.5	D ±1.0	E ±0.5	F ±0.2	G ±0.1	H ±1.0	I ±1.0	PCB HOLE	OUTPUT	WEIGHT
CTFP3-6	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	6	140g
CTFP3-9	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	9	140g
CTFP3-12	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	12	140g
CTFP3-15	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	15	140g
CTFP3-20	3	38	32	30	4	25	5	Sq 0.7	-	-	1.2mm	20	140g
CTFP6-6	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	6	180g
CTFP6-9	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	9	180g
CTFP6-12	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	12	180g
CTFP6-15	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	15	180g
CTFP6-20	6	43	36	32	4	25	5	1.0x0.7	45	36	1.2mm	20	180g
CTFP12-9	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	9	340g
CTFP12-12	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	12	340g
CTFP12-20	12	54	45	39	4	30	5	1.0x0.7	-	-	1.2mm	20	340g



Unused Pins will be omitted from standard parts.

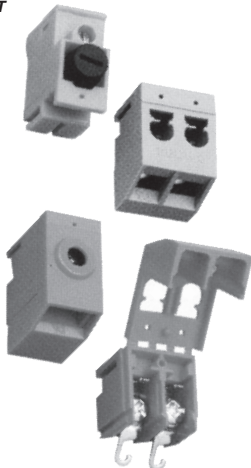


TRANSFORMERS

Transformer Connectors

- Connection terminals protect against external contacts on small transformers
- Orange or grey PA66 insulating body
- Black PA6 fuseholder
- Single or two poles available
- Solder tag or screw connections to transformer
- Screw or Faston connection to external wiring
- For 10 x 2mm mounting rail
- Blank or printed marking tabs available
-  &  approved

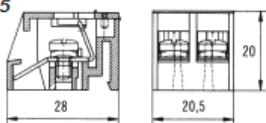
CTT



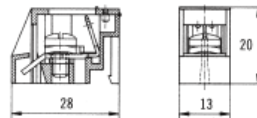
SPECIFICATION

Isolation voltage	250V AC	
	3400V AC	(CTTF4)
Moulding	PA66	
	PA6	(CTTF4)
Contacts	Tinned Brass	
	Nickel - Plated Brass	(CTTF4)
Screws	Zinc-plated steel	

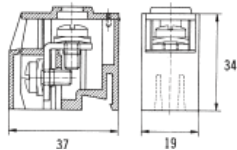
CTT2.5



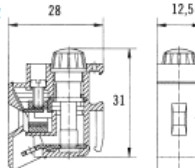
CTT4



CTT10



CTTF4



TYPE NO.	COLOUR	POLES	CONNECTING CAPACITY	MIN CONDUCTOR SECTION	TEST CURRENT	TRANSFORMER CONNECTION	EXTERNAL CONNECTION	LENGTH	WIDTH	HEIGHT
CTT2.5	Grey	2	2.5mm ² / 14AWG	1.0mm ²	10	2.5mm ² Solder	Faston 2.8mm or Screw 0.5 to 2.5mm	20.5mm	28mm	20mm
CTT2.5/O	Orange	2	2.5mm ² / 14AWG	1.0mm ²	10	2.5mm ² Solder	Faston 2.8mm or Screw 0.5 to 2.5mm	20.5mm	28mm	20mm
CTT4	Grey	1	4mm ² / 12AWG	1.5mm ²	16	4mm ² Solder	Faston 6.3mm or 2.8mm or Screw 0.5 to 2.5mm ²	13mm	28mm	20mm
CTT4/O	Orange	1	4mm ² / 12AWG	1.5mm ²	16	4mm ² Solder	Faston 6.3mm or 2.8mm or Screw 0.5 to 2.5mm ²	13mm	28mm	20mm
CTT10	Grey	1	10mm ² / 8AWG	4mm ²	32	10mm ² Solder	Screw 4 to 10mm ²	19mm	37mm	34mm
CTT10/O	Orange	1	10mm ² / 8AWG	4mm ²	32	10mm ² Solder	Screw 4 to 10mm ²	19mm	37mm	34mm
CTTF4/O	Orange	1	4mm ² / 10AWG	1.5mm ²	6.3	4mm ² Solder	Screw 0.5 to 4mm ²	12.5mm	28mm	31mm

MARKERS (SOLD IN BLOCKS OF 50)

TYPE NO.

CTTM-BLANK

CTTM-0V

CTTM-12V

CTTM-24V

CTTM-115V

CTTM-230V

Other voltages available on request



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Din Rail Relay Bases
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Electric Vehicle Batteries
Gelled Electrolyte Batteries
Solar Gel Batteries
Battery Balancer
Rechargeable Lantern Batteries
Battery Connectors
Battery Holders

Transformers

Chassis Mounted
PCB Mounting Encapsulated
PCB Mounting
Transformer Connectors

19" Enclosures

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ABS Enclosures

19" Cabinets

19" Wall Mount Racks
19" Flat Packed Racks
19" SOHO Cabinets

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Open Potting Boxes
Potting Boxes with Lid
Lugged Lid with Cable Entry Boxes
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Euro Controls
Vario Cases
Venti Cases
Terminal Cases

Development Board Enclosures

Raspberry Pi Style Enclosures
Arduino Enclosures
Banana Pi Enclosures
Riot Board Enclosures
Beagle Bone Black Enclosures

Universal Enclosures

Designer Cases
Stylish ABS Cases
General Purpose ABS Cases
Panel Lid Cases
End Panel Design Cases

Hand Held Cases

Pock Boxes
Handy Cases
Grip Cases
Display Enclosures
Sloped Cases
Mobile Cases
IR Pocket Cases
Palm Cases
Ergo T-style Cases
Keyfobs

Heavy Duty Enclosures

Polycarbonate Cases
ABS Cases

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One to Six Buttons
Mounting Plates

Interface Supports

Modular Mini Series 72mm
Extruded Mini Series 72mm
Modular Euro Series 107mm
Extruded Euro Series 107mm

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PCB TERMINAL BLOCKS SELECTION CHART

Our extensive selection of PCB Terminals Blocks are arranged within this catalogue via their style:

PCB Terminal Blocks (standard); Power Terminals; Pluggable male-female connectors; Pluggable vertical or 90° via header pins;

Pluggable vertical or 90° via contact blades; and Screwless Terminal Blocks.

We offer three ways to help source your required Terminal Block:

- 1) BROWSE our catalogue using our detailed section contents page located at the front of the Terminal Block Section
- 2) SELECT your Terminal Block using the selection chart below given your required criteria
- 3) PICK the known Terminal Block type number via our type number index on the following pages

[illegible]

[illegible]

7.5mm					7.62mm					9.52mm		10mm					10.16mm		Terminal Pitch		
CTB9400					CTB0118					CTB04VZ		CTB6000					CTB77VP		Type No.		
CTB9500					CTB01HL					CTB6000		CTB6050					CTB77VP				
CTB9550					CTB07VL					CTB6050		CTB64000					CTB77VP				
CTB9500/A0					CTB07HL					CTB6050		CTB64000					CTB77VP		Page Number		
CTB9550/A0					CTB07HL					CTB6050		CTB64000					CTB77VP		Style of Block		
CSTBV3					CTB9408					CTB6050		CTB64000					CTB77VP		Low Profile		
CTB0118					CTB9508					CTB6050		CTB64000					CTB77VP		Standard Profile		
CTB01HL					CTB9558					CTB6050		CTB64000					CTB77VP		High Power		
CTB07VL					CTB9508/A0					CTB6050		CTB64000					CTB77VP		Cutttable 36 or 18 Pole		
CTB07HL					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Large Cable Entry		
CTB9408					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Multi-Decker		
CTB9508					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Power Terminal		
CTB9558					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Flanged		
CTB9508/A0					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Pluggable (Terminal)		
CTB9558/A0					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Pluggable (Pins)		
CSTBV4					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Screwless		
CSTB45VL					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Orientation		
CTB04VZ					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Vertical - side entry		
CTB6000					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Vertical - top entry		
CTB6050					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Horizontal (90°) - top entry		
CTB64000					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Horizontal (90°) - side entry		
CTB55VN					CTB9558/A0					CTB6050		CTB64000					CTB77VP		45° Angle		
CTB2000					CTB9558/A0					CTB6050		CTB64000					CTB77VP		Rating (nominal)		
CTB2050					CTB9558/A0					CTB6050		CTB64000					CTB77VP		4A		
CTB2500					CTB9558/A0					CTB6050		CTB64000					CTB77VP		6A		
CTB8000					CTB9558/A0					CTB6050		CTB64000					CTB77VP		10A		
CTB8050					CTB9558/A0					CTB6050		CTB64000					CTB77VP		12A		
CTB2301					CTB9558/A0					CTB6050		CTB64000					CTB77VP		13.5A		
CTB2301P					CTB9558/A0					CTB6050		CTB64000					CTB77VP		14A		
CTB8300/F					CTB9558/A0					CTB6050		CTB64000					CTB77VP		16A		
CTB8300/M					CTB9558/A0					CTB6050		CTB64000					CTB77VP		20A		
CSTBV5					CTB9558/A0					CTB6050		CTB64000					CTB77VP		22A		
CTB77VP					CTB9558/A0					CTB6050		CTB64000					CTB77VP		24A		
CSTBV6					CTB9558/A0					CTB6050		CTB64000					CTB77VP		32A		
CSTBV23P					CTB9558/A0					CTB6050		CTB64000					CTB77VP		57A		
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7.5mm					7.62mm					9.52mm		10mm					10.16mm		Terminal Type		
7.5mm					7.62mm					9.52mm		10mm					10.16mm		Wire Protected		
7.5mm					7.62mm					9.52mm		10mm					10.16mm		Rising Clamp		
7.5mm					7.62mm					9.52mm		10mm					10.16mm		Block Type		
7.5mm					7.62mm					9.52mm		10mm					10.16mm		Interlocking		
7.5mm					7.62mm					9.52mm		10mm					10.16mm		Solid Block		

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GENERAL CONDITIONS OF SALE

CONSTRUCTION OF CONTRACT

(1) These Conditions shall apply to all contracts of sale between CamdenBoss and the buyer.

(2) The terms of the contract shall consist of the particulars set out in Camden Boss's Order Acknowledgement and these Conditions of Sale. Any term in these conditions shall prevail over these conditions which shall be construed accordingly, except with regard to price in respect of which conditions 5(2) shall prevail.

(3) No other terms (whether contained in any other document issued by the Buyer or in any written or oral communication between the parties) shall apply to the Contract nor shall these Conditions or the particulars contained in CamdenBoss's order.

Acknowledgement be modified without CamdenBoss's written agreement. CamdenBoss shall be entitled to amend technical specifications of the goods without notice.

(4) In order that these Conditions and the particulars in CamdenBoss's order Acknowledgement shall be a complete record of the agreement between the parties with regard to the sale of the Goods. The Buyer must ensure that any pre-contractual representation on which the Buyer wishes to rely has been specified in those particulars. In entering into the Contract, the Buyer does not rely upon any such representation made by or on behalf of the company which has not been so specified.

QUOTATIONS AND ORDERS

(1) Unless accepted before lapse or withdrawal or renewed in writing by CamdenBoss, quotations shall lapse automatically after 30 days, but may be withdrawn earlier.

(2) Quotations are for information only and are not firm offers. There shall be no binding contract until CamdenBoss has accepted the Buyer's order by dispatching CamdenBoss's official Acknowledgement of Order or Invoice.

DELIVERY

(1) Although CamdenBoss will endeavour to deliver the Goods within any delivery time specified in CamdenBoss's Order Acknowledgement that time is an estimate and not a term of the contract.

(2) Any such time specified shall be extended by a period or periods during which the manufacture or delivery of the Goods or other work by CamdenBoss in connection with the Contract is delayed due to fire, explosion, flood, storm, tempest, sabotage, strikes (official and unofficial), riot, invasion, acts of war, shortages of labour, power or materials, civil commotion, accidents, plant breakdowns, compliance with an order of an apparently competent authority and any other event beyond CamdenBoss's control.

(3) If any such delivery time is so extended by more than 90 days then the Buyer shall be entitled to give written notice to CamdenBoss, requiring the Goods to be delivered within 30 days of the date of such notice failing which the Buyer shall have the right to give further written notice terminating the contract forthwith.

(4) CamdenBoss shall be entitled to deliver the goods in instalments.

(5) In the case of United Kingdom customers, unless otherwise stated, CamdenBoss will deliver to the Buyer's premises and will charge separately for packing and carriage. In the case of exports, unless otherwise stated, delivery will be ex-works but CamdenBoss will arrange sea carriage with a Shipper nominated by the Buyer and the carriage will be charged forward for direct payment by the Buyer.

(6) The delivery of CamdenBoss of a greater or lesser quantity of the Goods than the quantity provided for in the Contract, the delivery of other goods not provided for in the Contract, or the delivery of Goods only some of which are defective shall not entitle the Buyer to reject all of the Goods delivered. Claims in respect of the quantity and or condition of the Goods delivered must be made in writing to CamdenBoss within 3 days of the carrier and CamdenBoss notified within 7 days of receipt. Failure to make such a claim shall constitute unqualified acceptance of the Goods and waiver by the Buyer of all claims relating to error in quantity or type of Goods delivered or relating to the condition of the Goods delivered. Similarly, if any goods invoiced by CamdenBoss are not delivered, the buyer must notify CamdenBoss within 25 days of the carrier and CamdenBoss within 28 days of the date of invoice, failing which the Buyer will be liable to pay for the Goods in full.

PAYMENT

(1) If CamdenBoss has granted the buyer monthly account credit facilities, then payment of the price must be made within 30 days of the date of invoice. Otherwise payment must be in cash prior to delivery. Payment shall be made direct to CamdenBoss in the currency invoiced. The buyer shall not be entitled to exercise any right of set-off against payment due to CamdenBoss.

(2) CamdenBoss shall be entitled to charge daily interest on any overdue sum at the rate of 5 % annum above the base lending rate for the time being of National Westminster Bank, from the due date until the day of the actual payment

(3) If payment terms are breached, the total amount to date becomes due.

PRICES

(1) Unless otherwise stated in CamdenBoss's Order Acknowledgement prices for the Goods shall be ex-works and shall be exclusive of VAT, export duty and foreign import duty, packaging carriage, insurance and any other costs, all of which shall be the subject of additional charges.

(2) Prices stated in any quotation or in CamdenBoss's Acknowledgement of Order are provisional only and subject to adjustment to take account of increases in CamdenBoss's cost and overheads. The contract price shall be CamdenBoss's price ruling at the date of dispatch.

PROPERTY & RISK

(a) The risk in the goods shall pass to the Buyer upon delivery of the goods to a carrier for transmission to the Buyer or the prior delivery of the goods to the stipulated place of delivery.

(b) The legal property and beneficial ownership in the goods shall remain in CamdenBoss until CamdenBoss has received:

(i) All sums due from the Buyer to CamdenBoss under the contract in respect of the goods, and

(ii) All other sums due from the Buyer to CamdenBoss on any account what-so-ever.

(c) If the buyer (who shall in such case act on its own account and not as Agent for CamdenBoss) shall sell the goods prior to making payment in full for them, the beneficial entitlement of CamdenBoss therein shall attach to the proceeds of sale or the claim for such goods.

(d) So long as the legal property and beneficial ownership in the goods remains in CamdenBoss, CamdenBoss shall have the right, without prejudice to the obligation of the Buyer to purchase the goods, to retake possession of the goods and for that purpose to go upon any premises occupied by the buyer.

(e) If any sum due from the Buyer to CamdenBoss on any account what-so-ever remains unpaid after CamdenBoss has given to the Buyer two days written notice of its intention to exercise its rights under this Condition, the Buyer shall be deemed to have repudiated the contract in respect of the goods and CamdenBoss shall be entitled to terminate the contract, to forfeit any sums paid to it by the Buyer in respect of the goods and to retake possession of the goods (and for that purpose to go upon any premises occupied by the Buyer) without prejudice to any other claims CamdenBoss may have against the Buyer.

(f) The Buyer shall execute all such documents and give CamdenBoss all such assistances as it may require in order to register CamdenBoss's interest in the goods in the Buyer's country or which might otherwise be necessary in order to preserve and protect CamdenBoss's interest in the goods.

(g) Nothing in this condition shall confer any right upon the Buyer to return the goods sold hereunder. CamdenBoss may maintain an action for the price notwithstanding that legal property and beneficial ownership in the goods may not have passed to the Buyer.

(h) Notwithstanding the above, CamdenBoss shall be entitled at any time to pass the legal property and beneficial ownership in the goods to the buyer by written notice to that effect.

WARRANTIES AND EXEMPTIONS

(1) Save as herein stated, and except to the extent that CamdenBoss is prevented by the provisions of the Unfair Contract Terms Act 1977 from so limiting its liability, there shall be excluded from the contract any warranty condition or statement express or implied statutory or otherwise as to quality merchantability or fitness of the goods for any particular purpose and goods which the buyer claims to be defective shall not form the subject of any claim for any loss, damage or expense of any kind arising directly or indirectly from those defects.

(2) If under proper use the goods develop any defect during the warranty period due to defective articles or materials supplied or work carried out by CamdenBoss (other than materials ordered, provided or specified, or work carried out to the specification of the buyer or his agent) CamdenBoss shall at its own expense either replace or repair such goods as are defective so as to remedy the defects except where such defects are attributable to accident, fair wear and tear, or any action omission or neglect of the Buyer or of its agents, or at its discretion refund the purchase price or issue a credit notice for the amount in question. The buyer must give CamdenBoss notice of any alleged defect as soon as it becomes apparent and shall (as instructed by CamdenBoss) either return the goods to CamdenBoss at the Buyer's expense or retain the goods at Buyer's premises for inspection by CamdenBoss and give CamdenBoss adequate facilities to investigate the complaint at the Buyer's premises.

(3) Any defects of quality or specifications in any goods shall not give the Buyer any grounds for cancelling the remainder of any order or contract, nor shall it be grounds for delay in payment for goods for goods already delivered.

(4) The warranty period shall mean the period specified in CamdenBoss's Order Acknowledgment as the warranty period and if no such period is specified then a period of 12 months from the date of delivery.

CANCELLATION

The contract may be cancelled by the Buyer only with Camden Boss written consent. In the event of such cancellation the Buyer shall pay to CamdenBoss a cancellation charge, commensurate with CamdenBoss's cost incurred up to the date of cancellation plus CamdenBoss's loss of profit.

INSOLVENCY AND DEFAULT

In the event of the buyer becoming (or appearing to CamdenBoss to become) bankrupt or going (or appearing to CamdenBoss to be about to go) into liquidation, suspending payment of debts or making any arrangement with creditors or failing to pay in accordance with terms of the Contract or being in breach of any other term of the contract CamdenBoss shall be entitled, without prejudice to its other rights, to postpone delivery or manufacture (both in respect of the Contract in question and any other contracts with the Buyer) until such payment has been made or other breach rectified and or (at its option) to determine the Contract (and of and other contracts) and to recover payment for all deliveries already made and for the cost of materials and labour already expended for the purpose of future deliveries less any allowance of the value thereof as utilised by CamdenBoss for other purposes and also to recover from the Buyer a sum equivalent to CamdenBoss's loss profit arising out of such determination. The exercise of CamdenBoss's option to postpone delivery or manufacture shall not prevent the subsequent exercise of CamdenBoss's option to determine the Contract and or any other such contracts.

LAW AND JURISDICTION

The proper law of the Contract shall be English law and shall except where otherwise herein provided be dealt with by the Court Of England, save that CamdenBoss shall be entitled to bring proceedings against the Buyer in the Courts of the Jurisdiction where the Buyer resides or carries on business.

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