



## General Data

Type Reference:	CTP...
Description:	Electronic contact block with PCB-mount terminals, with snap action
Approvals:	CCC, cCSAus, GOST-R, NV, CE, UkrSepro
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	PCB-mount terminals
Contact material:	gold-plated 1.5µm
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 70°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

## Technical Data - Lamp

Lamp socket:	T5,5K
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

## Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

## Note

### Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	alternate current
Utilisation category:	AC12	DC12
Rated insulation voltage $U_i$ :	60V	60V
Rated operating voltage $U_e$ :	48V	48V
Rated operating current $I_e$ :	0.1A	0.1A
Continuous thermal current:	100mA	100mA



# Contact Blocks

PCB-mount terminals

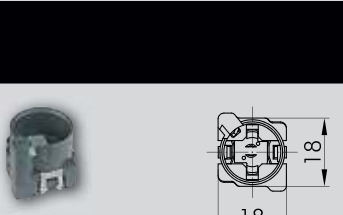
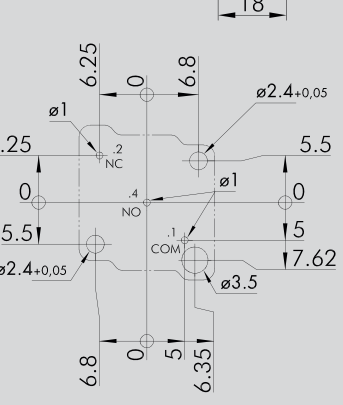
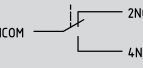


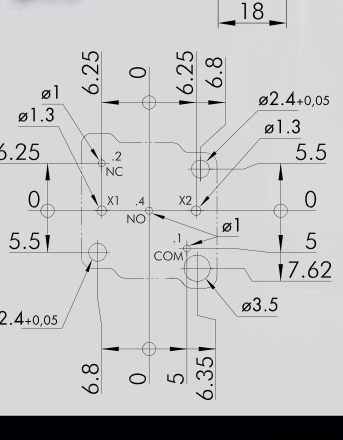
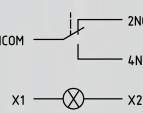


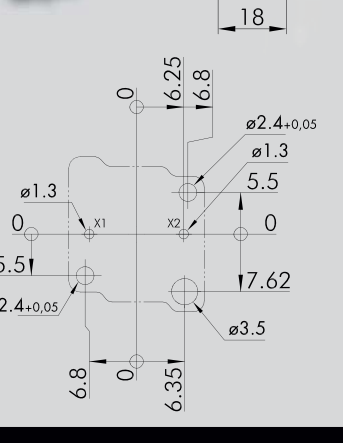
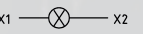

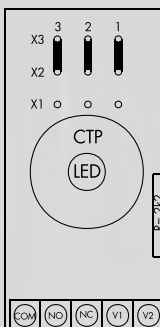
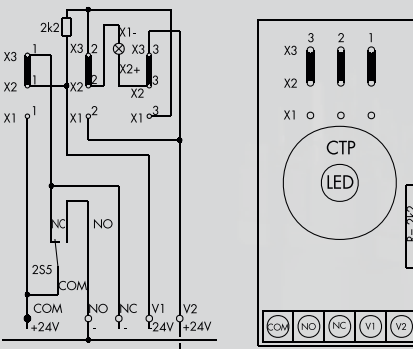
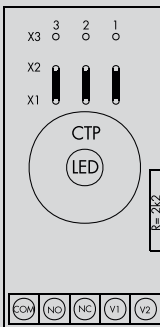
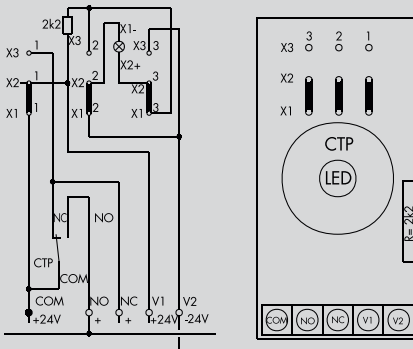
Illustration	Description	Type
 <p>13mm</p> 	 <p><b>Contact Unit, momentary 1 inverter</b>            PCB-mount terminals            2 holes allow direct soldering of an LED into the PCB</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm</p>	<p><b>CTP_485</b></p>
 <p>13mm</p> 	 <p><b>Illuminated Contact Unit, momentary 1 inverter</b>            PCB-mount terminals            lamp socket T5,5K</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm</p>	<p><b>CTLP_485</b></p>
 <p>13mm</p> 	 <p><b>Lampholder</b>            PCB-mount terminals            lamp socket T5,5K</p> <p>suitable pilot light heads</p> 	<p><b>CLP_485</b></p>



Illustration	Description	Type
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### Assembled PCB Strips

**PCD3012**

screw connection  
 specially designed for the elevator industry, with 12 illuminated electronic contact units (snap action type). Plug-in bridge connectors allow easy change-over from positive to negative logic. The strips can easily be separated as required. The power supply lines are guided through the predetermined breaking points. Each pushbutton is assigned a full set of terminals.

For technical data of the contact unit, refer to type CTP

suitable actuators



### Ultra-bright LED, T5,5K socket - 12V

with integrated series resistor and single-wave rectifier, for 12 V AC/DC (7/14 mA)

When connecting to DC, the correct polarity must be observed:

+ ... X1/- ... X2

storage temperature:

-25°C ... +80°C






ambient temperature:

-20°C ... +60°C

voltage tolerance:

+10 %

colour	blue	<b>L5,5K12UB</b>
	green	<b>L5,5K12UG</b>
	red	<b>L5,5K12UR</b>
	white	<b>L5,5K12UW</b>
	yellow	<b>L5,5K12UY</b>

Illustration	Description	Type																		
	<p><b>Ultra-bright LED, T5.5K socket - 24V</b> with integrated series resistor and single-wave rectifier for 24V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: +10 %</p>	<table border="0"> <tr><td>blue</td><td><b>L5,5K24UB</b></td></tr> <tr><td>green</td><td><b>L5,5K24UG</b></td></tr> <tr><td>red</td><td><b>L5,5K24UR</b></td></tr> <tr><td>white</td><td><b>L5,5K24UW</b></td></tr> <tr><td>yellow</td><td><b>L5,5K24UY</b></td></tr> </table>	blue	<b>L5,5K24UB</b>	green	<b>L5,5K24UG</b>	red	<b>L5,5K24UR</b>	white	<b>L5,5K24UW</b>	yellow	<b>L5,5K24UY</b>								
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	<p><b>Two-colour LED, T5.5K socket - 24V</b> with integrated series resistor colour dependent on polarity Storage temperature: -25°C ... +80°C Ambient temperature: -20°C ... +60°C Voltage tolerance: + 10 %</p>	<table border="0"> <tr><td>Colour:</td><td>red</td><td>green</td></tr> <tr><td>Rated current [mA]:</td><td>14</td><td>13</td></tr> <tr><td>Brightness [mcd]:</td><td>2300</td><td>650</td></tr> <tr><td>Dom. wavelength: [nm]</td><td>625</td><td>525</td></tr> <tr><td>colour</td><td colspan="2">red/green</td></tr> <tr><td></td><td colspan="2"><b>L5,5K24RG</b></td></tr> </table>	Colour:	red	green	Rated current [mA]:	14	13	Brightness [mcd]:	2300	650	Dom. wavelength: [nm]	625	525	colour	red/green			<b>L5,5K24RG</b>	
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		<p><b>LED Adapter</b> <span style="float: right;"><b>LA5,5</b></span> for LED's of 3 and 5 mm Ø to be used in T5.5K sockets, an external resistor must be provided.</p> <table border="0"> <tr><td>lamp socket</td><td>T5,5K</td></tr> </table>	lamp socket	T5,5K																
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# Contact Blocks

PCB-mount terminals

Illustration

Description

Type



## Incandescent Lamp with T5.5K socket

6V / 1,2W (200mA)	<b>T5,5K-6V</b>
12V / 1,2W (100mA)	<b>T5,5K-12V</b>
24V / 1,2W (50mA)	<b>T5,5K-24V</b>
30V / 1,2W (40mA)	<b>T5,5K-30V</b>
36V / 1,2W (35mA)	<b>T5,5K-36V</b>
48V / 1,2W (25mA)	<b>T5,5K-48V</b>
60V / 1,2W (20mA)	<b>T5,5K-60V</b>



Contact Blocks

High Technology

Performance

Long Service

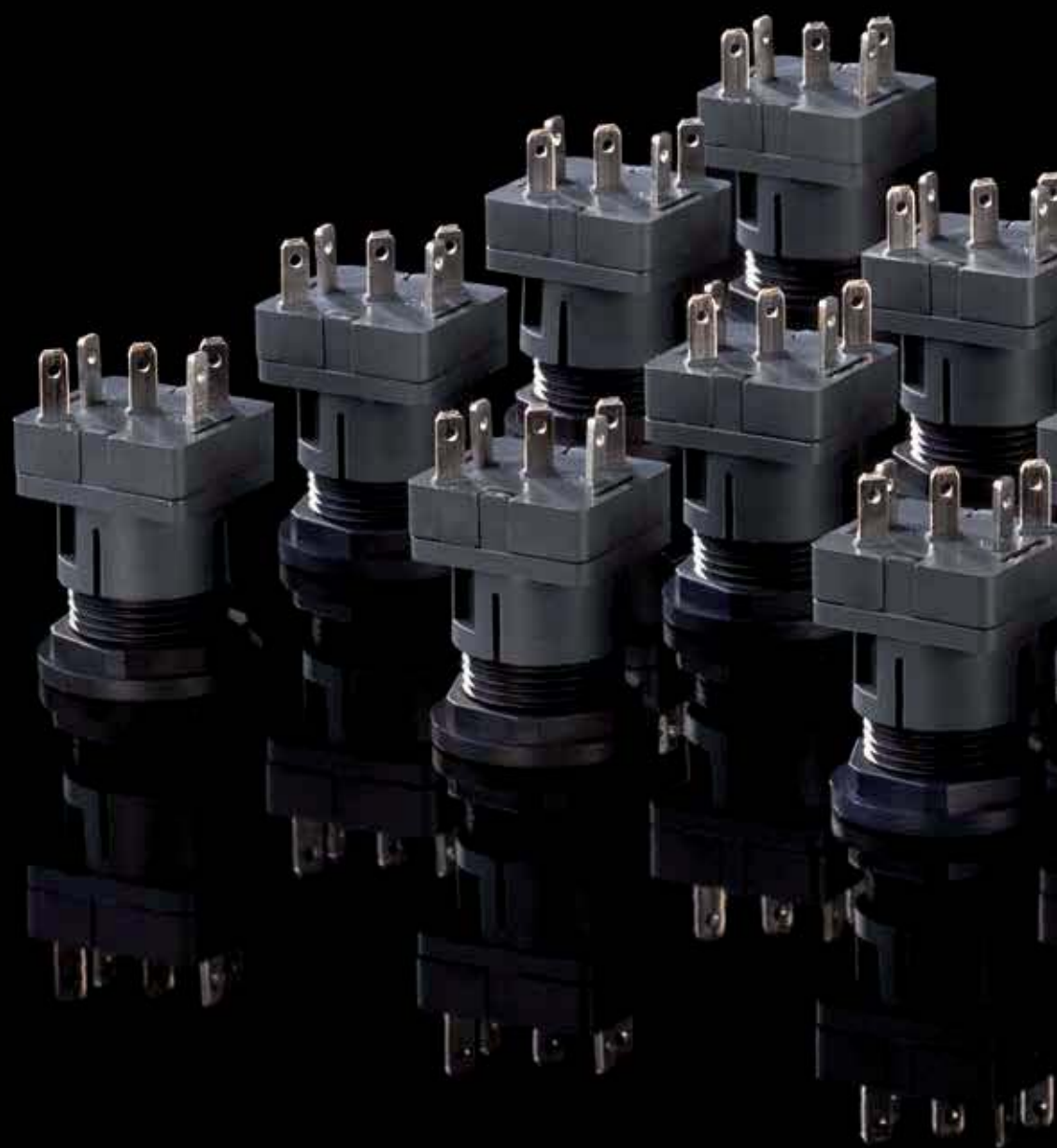
Power Switches

Terminal Blocks



Wider
Busbar
Control Units Control Units
Bus Technology
Terminal
Motor Switches
Product Support
General Info





## General Data

Type Reference:	CTLF, CLF, CTF
Description:	Illuminated electronic contact block with snap action
Approvals:	CE, GOST-R, UkrSepro
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	Faston terminals 2.8x0.8 mm
Contact material:	gold-plated 1.5µm
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 70°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

## Technical Data - Lamp

Lamp socket:	T5,5K
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

## Electrical Features





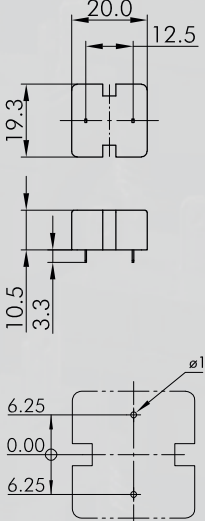
Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA



# Contact Blocks

Faston terminals 2.8x0.8 mm

Illustration	Description	Type
   	<p><b>Contact Unit, momentary 1 inverter</b> Faston terminals 2.8x0.8 mm</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm <b>CTF</b></p>	
   	<p><b>Contact Unit, momentary, for 250V~ 1 inverter</b> Faston terminals 2.8x0.8 mm EN 61058-1 µ 250V~/100mA, µ micro-disconnection (µ)</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm <b>CTF_250</b></p>	
    	<p><b>Illuminated Contact Unit, momentary 1 inverter</b> Faston terminals 2.8x0.8 mm lamp socket T5,5K</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm <b>CTLF</b></p>	
    	<p><b>Illuminated Contact Unit, momentary, for 250V~ 1 inverter</b> Faston terminals 2.8x0.8 mm EN 61058-1 µ 250V~/100mA, µ micro-disconnection (µ) LED max. 60V lamp socket T5,5K</p> <p>suitable actuators</p>  <p>contact material gold-plated 1.5µm <b>CTLF_250</b></p>	
   	<p><b>Lampholder</b> Faston terminals 2.8x0.8 mm lamp socket T5,5K</p> <p>suitable pilot light heads</p>  <p><b>CLF</b></p>	

Illustration	Description	Type
	<p><b>Insulating Case</b> for Faston clamp FH2,8, slip on from the front</p>	<p><b>IH2,8</b></p>
	<p><b>Faston Clamp 2.8 x 0.8 mm with snap-in pin</b> Cross section 0.75 - 1.50 mm<sup>2</sup>, brass, with pin to snapfit into the socket XA, XAL and the insulating case IH2.8</p>	<p><b>FH2,8</b></p>
	<p><b>Double Faston</b> for the connection of 2 Faston clamps FH2.8</p>	<p><b>FD2,8</b></p>
 	<p><b>Plug-in Socket</b> PCB-mount terminals with 2 contact pins to fit CLF lampholder</p>	<p><b>CAFP2</b></p>

Bus Technology  
 Full Range  
 Circuit Breakers  
 Contact Blocks  
 Control Units  
 Custom Blocks

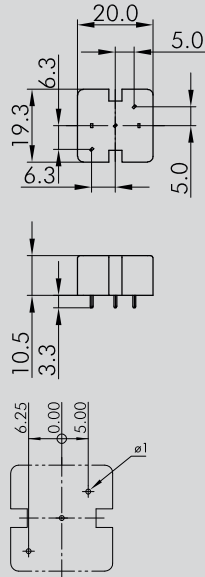
# Contact Blocks

Faston terminals 2.8x0.8 mm

Illustration

Description

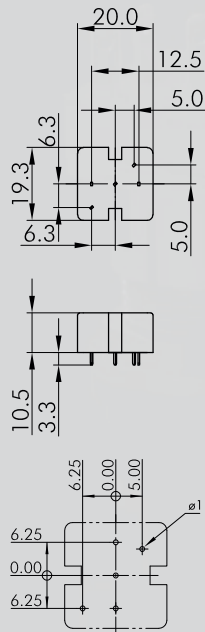
Type



## Plug-in Socket

**CAFP3**




PCB-mount terminals  
with 3 contact pins to fit CTF contact unit



## Plug-in Socket

**CAFP5**




PCB-mount terminals  
with 5 contact pins to fit CTLF contact unit

Illustration	Description	Type															
	<p><b>Ultra-bright LED, T5,5K socket - 12V</b> with integrated series resistor and single-wave rectifier, for 12 V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: +10 %</p>	<table> <tr> <td>colour</td> <td>blue</td> <td><b>L5,5K12UB</b></td> </tr> <tr> <td></td> <td>green</td> <td><b>L5,5K12UG</b></td> </tr> <tr> <td></td> <td>red</td> <td><b>L5,5K12UR</b></td> </tr> <tr> <td></td> <td>white</td> <td><b>L5,5K12UW</b></td> </tr> <tr> <td></td> <td>yellow</td> <td><b>L5,5K12UY</b></td> </tr> </table>	colour	blue	<b>L5,5K12UB</b>		green	<b>L5,5K12UG</b>		red	<b>L5,5K12UR</b>		white	<b>L5,5K12UW</b>		yellow	<b>L5,5K12UY</b>
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	<p><b>Ultra-bright LED, T5,5K socket - 24V</b> with integrated series resistor and single-wave rectifier for 24V AC/DC (7/14 mA) When connecting to DC, the correct polarity must be observed: + ... X1/- ... X2 storage temperature: -25°C ... +80°C ambient temperature: -20°C ... +60°C voltage tolerance: +10 %</p>	<table> <tr> <td>colour</td> <td>blue</td> <td><b>L5,5K24UB</b></td> </tr> <tr> <td></td> <td>green</td> <td><b>L5,5K24UG</b></td> </tr> <tr> <td></td> <td>red</td> <td><b>L5,5K24UR</b></td> </tr> <tr> <td></td> <td>white</td> <td><b>L5,5K24UW</b></td> </tr> <tr> <td></td> <td>yellow</td> <td><b>L5,5K24UY</b></td> </tr> </table>	colour	blue	<b>L5,5K24UB</b>		green	<b>L5,5K24UG</b>		red	<b>L5,5K24UR</b>		white	<b>L5,5K24UW</b>		yellow	<b>L5,5K24UY</b>
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# Contact Blocks

Faston terminals 2.8x0.8 mm

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	<p><b>Incandescent Lamp with T5.5K socket</b></p> <table border="0"> <tr> <td>6V / 1,2W (200mA)</td> <td><b>T5,5K-6V</b></td> </tr> <tr> <td>12V / 1,2W (100mA)</td> <td><b>T5,5K-12V</b></td> </tr> <tr> <td>24V / 1,2W (50mA)</td> <td><b>T5,5K-24V</b></td> </tr> <tr> <td>30V / 1,2W (40mA)</td> <td><b>T5,5K-30V</b></td> </tr> <tr> <td>36V / 1,2W (35mA)</td> <td><b>T5,5K-36V</b></td> </tr> <tr> <td>48V / 1,2W (25mA)</td> <td><b>T5,5K-48V</b></td> </tr> <tr> <td>60V / 1,2W (20mA)</td> <td><b>T5,5K-60V</b></td> </tr> </table>	6V / 1,2W (200mA)	<b>T5,5K-6V</b>	12V / 1,2W (100mA)	<b>T5,5K-12V</b>	24V / 1,2W (50mA)	<b>T5,5K-24V</b>	30V / 1,2W (40mA)	<b>T5,5K-30V</b>	36V / 1,2W (35mA)	<b>T5,5K-36V</b>	48V / 1,2W (25mA)	<b>T5,5K-48V</b>	60V / 1,2W (20mA)	<b>T5,5K-60V</b>		
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- Welding
- Control Units
- Control Assemblies
- Bus Technology
- Terminal Blocks
- Motor Switches
- Product Supplies
- General Works





## General Data

Type Reference:	CZ...
Description:	Electronic contact block with snap action
Approvals:	CCC, cCSAus, GOST-R, NV, CE, UkrSepro
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	PCB-mount terminals
Contact material:	gold-plated 1.5µm
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 70°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

## Technical Data - Lamp

Lamp socket:	T5,5K
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

## Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

## Note

### Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage $U_i$ :	60V	60V
Rated operating voltage $U_e$ :	48V	48V
Rated operating current $I_e$ :	0.1A	0.1A
Continuous thermal current:	100mA	100mA





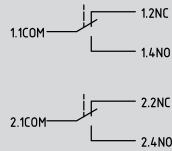
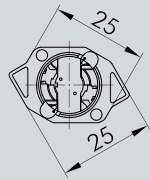
# Contact Blocks

PCB-mount terminals

Illustration

Description

Type



## Contact unit with two-piece plunger, momentary 2 inverters

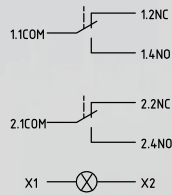
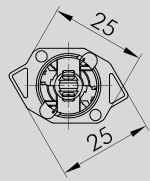
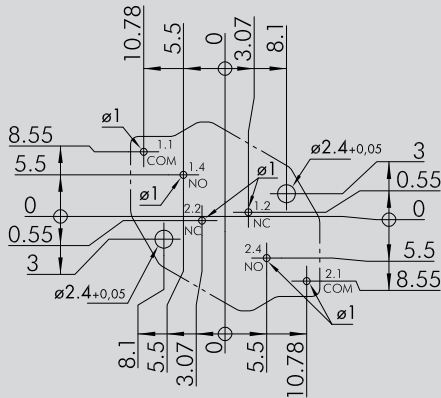
PCB-mount terminals  
2 independent single-circuit inverters can only be combined with the contact units PTP... and C...\_485

suitable actuators



contact material gold-plated 1.5µm

**CZTP2\_549**



## Illuminated Contact Unit with two-piece plunger 2 inverters

PCB-mount terminals  
2 independent single-circuit inverters can only be combined with the contact units PTP... and C...\_485

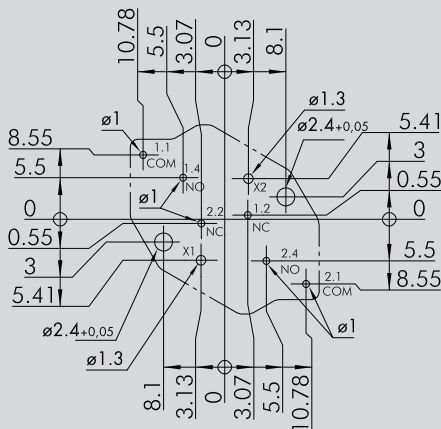
lamp socket T5,5K

suitable actuators



contact material gold-plated 1.5µm

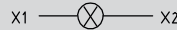
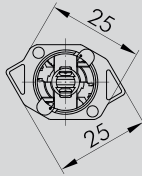
**CZTLP2\_549**



Illustration

Description

Type

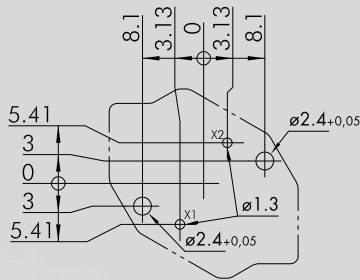


### Lampholder

**CZLP**

PCB-mount terminals  
can only be combined with the contact  
units PTP... and C...\_485  
lamp socket T5,5K

suitable pilot light heads



### Ultra-bright LED, T5,5K socket - 12V

with integrated series resistor and single-wave rectifier, for 12 V AC/DC (7/14 mA)

When connecting to DC, the correct polarity must be observed:

+ ... X1/- ... X2

storage temperature:

-25°C ... +80°C

ambient temperature:

-20°C ... +60°C

voltage tolerance:

+10 %

colour	blue	<b>L5,5K12UB</b>
	green	<b>L5,5K12UG</b>
	red	<b>L5,5K12UR</b>
	white	<b>L5,5K12UW</b>
	yellow	<b>L5,5K12UY</b>



### Ultra-bright LED, T5.5K socket - 24V

with integrated series resistor and single-wave rectifier

for 24V AC/DC (7/14 mA)

When connecting to DC, the correct polarity must be observed:

+ ... X1/- ... X2

storage temperature:

-25°C ... +80°C

ambient temperature:

-20°C ... +60°C

voltage tolerance:

+10 %

colour	blue	<b>L5,5K24UB</b>
	green	<b>L5,5K24UG</b>
	red	<b>L5,5K24UR</b>
	white	<b>L5,5K24UW</b>
	yellow	<b>L5,5K24UY</b>

# Contact Blocks

PCB-mount terminals

Illustration

Description

Type



### Two-colour LED, T5,5K socket - 24V

with integrated series resistor  
 colour dependent on polarity  
 Storage temperature:  
 -25°C ... +80°C  
 Ambient temperature:  
 -20°C ... +60°C  
 Voltage tolerance:  
 + 10 %

Colour:	red	green
Rated current [mA]:	14	13
Brightness [mcd]:	2300	650
Dom. wavelength: [nm]	625	525

colour red/green

**L5,5K24RG**



### Ultra-bright LED

solder pins, grid 2.54 mm  
 ready-made for CTP\_485

900 mcd	blue	<b>LED3UB</b>
2760 mcd	green	<b>LED3UG</b>
1800 mcd	red	<b>LED3UR</b>
3680 mcd	white	<b>LED3UW</b>
1800 mcd	yellow	<b>LED3UY</b>



### LED Adapter

for LED's of 3 and 5 mm Ø to be used in T5.5K sockets,  
 an external resistor must be provided.

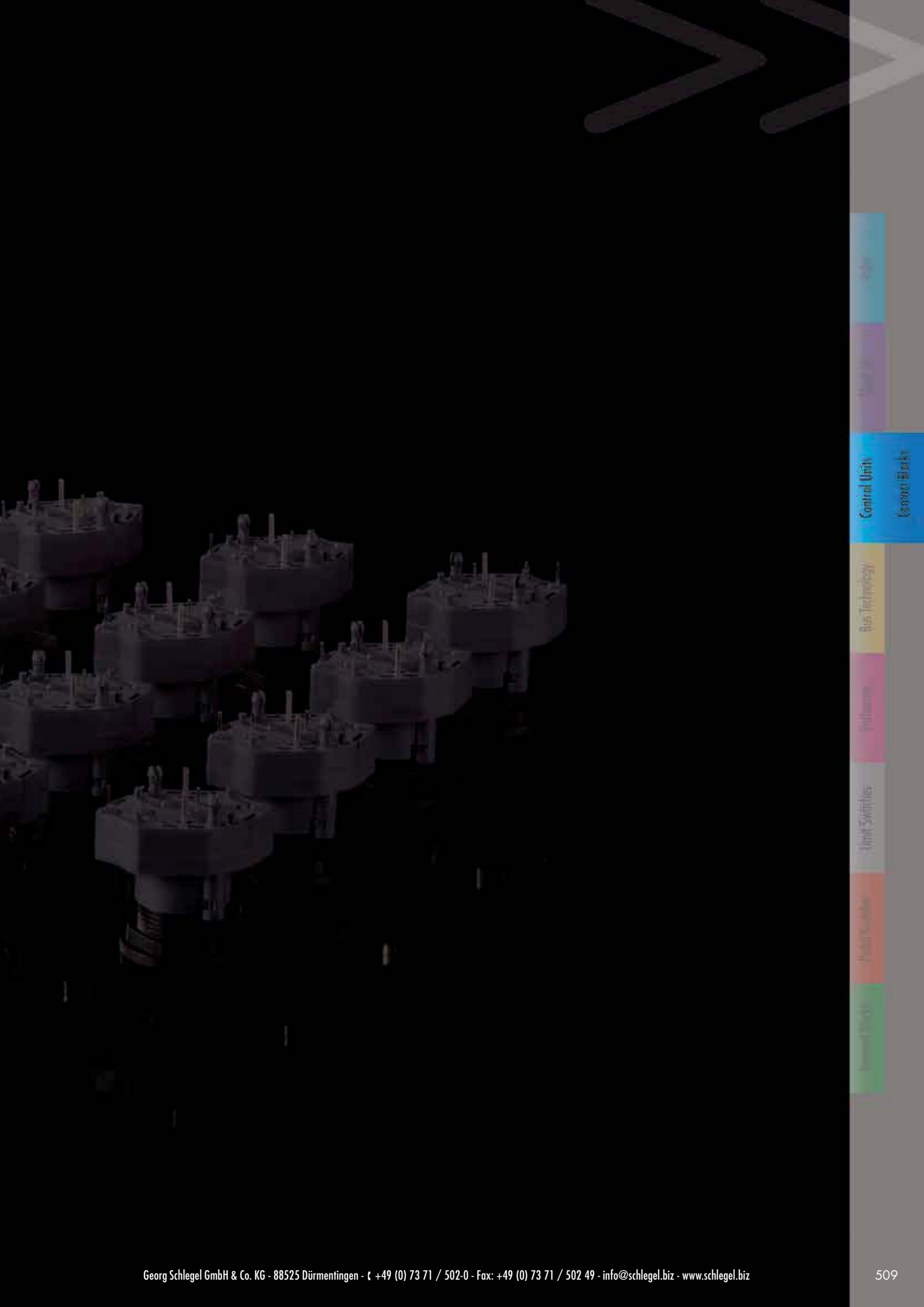
lamp socket T5,5K

**LA5,5**



### Incandescent Lamp with T5.5K socket

6V / 1,2W (200mA)	<b>T5,5K-6V</b>
12V / 1,2W (100mA)	<b>T5,5K-12V</b>
24V / 1,2W (50mA)	<b>T5,5K-24V</b>
30V / 1,2W (40mA)	<b>T5,5K-30V</b>
36V / 1,2W (35mA)	<b>T5,5K-36V</b>
48V / 1,2W (25mA)	<b>T5,5K-48V</b>
60V / 1,2W (20mA)	<b>T5,5K-60V</b>



Relays

Modular

Control Units  
Control Blocks

Bus Technology

Terminal

Limit Switches

Product Portfolio

General Block





## General Data

Type Reference:	CT...
Description:	Electronic contact block with snap action
Approvals:	CCC, cCSAus, GOST-R, NV, CE, UkrSepro
Protection class:	II (protective insulation)
Operation travel:	3 mm
Connection type:	Faston terminals 2.8x0.8 mm
Contact material:	gold-plated 1.5µm
Max. storage temperature:	-50°C ... 85°C
Max. operating temperature:	-30°C ... 70°C, without illumination -30°C ... 55°C, using incandescent lamps -30°C ... 65°C, using LED's
Mechanical life:	1m operations
Electrical life (rated load):	1m operations at rated load
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms

## Technical Data - Lamp

Lamp socket:	T5,5K
Max. lamp voltage:	60V
Max. lamp output:	1.2W
Definition:	X1...anode, X2...cathode

## Electrical Features

Rated voltage:	20mV ... 48V AC/DC
Rated current:	0.01mA ... 100mA

## Note



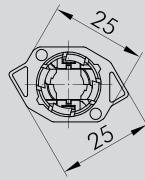
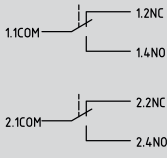




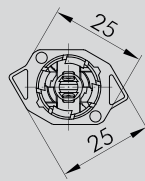
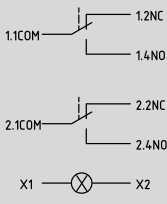



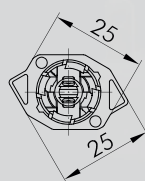
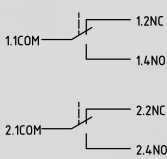



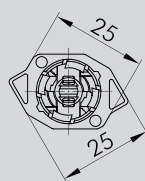
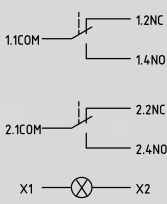

### Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC12	DC12
Rated insulation voltage Ui:	60V	60V
Rated operating voltage Ue:	48V	48V
Rated operating current Ie:	0.1A	0.1A
Continuous thermal current:	100mA	100mA



# Contact Blocks

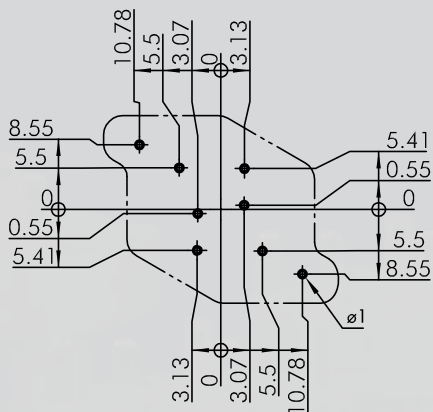
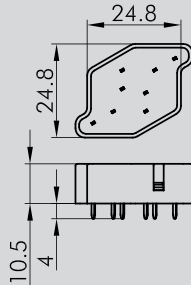
Faston terminals 2.8x0.8 mm

Illustration	Description	Type
  	 <p><b>Contact Unit, momentary 2 inverters</b> Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6</p> <p>suitable actuators  </p> <p>contact material gold-plated 1.5µm <b>CT2</b></p>	
   	 <p><b>Illuminated Contact Unit, momentary 2 inverters</b> Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP8</p> <p>lamp socket T5,5K</p> <p>suitable actuators  </p> <p>contact material gold-plated 1.5µm <b>CTL2</b></p>	
  	 <p><b>Contact Unit with two-piece plunger, momentary 2 inverters</b> Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP6</p> <p>suitable actuators  </p> <p>contact material gold-plated 1.5µm <b>CT2_549</b></p>	
  	 <p><b>Illuminated Contact Block with separate plungers, momentary 2 inverters</b> Faston terminals 2.8x0.8 mm 2 independent single-circuit inverters suitable plug-in socket CAP8</p> <p>lamp socket T5,5K</p> <p>suitable actuators  </p> <p>contact material gold-plated 1.5µm <b>CTL2_549</b></p>	

Illustration

Description

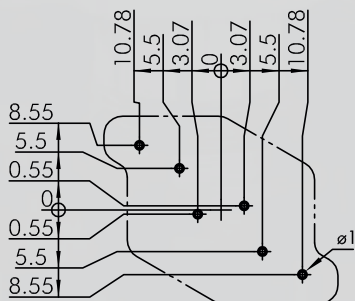
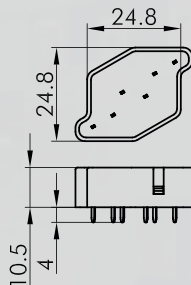
Type



### Plug-in Socket

**CAP8**

with 8 contact pins to fit CTL2 contact unit



### Plug-in Socket

**CAP6**

with 6 contact pins to fit CT2 contact unit



### Insulating Case

**IH2,8**

for Faston clamp FH2,8, slip on from the front

Control Units  
Custom Blocks  
Bus Technology  
Fuses  
Circuit Breakers  
Switches  
Terminal Blocks

# Contact Blocks

Faston terminals 2.8x0.8 mm









Illustration	Description	Type															
	<p><b>Faston Clamp 2.8 x 0.8 mm with snap-in pin</b>                      Cross section 0.75 - 1.50 mm<sup>2</sup>, brass, with pin to snapfit into the socket XA, XAL and the insulating case IH2.8</p>	<p><b>FH2,8</b></p>															
	<p><b>Double Faston</b>                      for the connection of 2 Faston clamps FH2.8</p>	<p><b>FD2,8</b></p>															
	<p><b>Ultra-bright LED, T5,5K socket - 12V</b>                      with integrated series resistor and single-wave rectifier, for 12 V AC/DC (7/14 mA)                      When connecting to DC, the correct polarity must be observed:                      + ... X1/- ... X2                      storage temperature: -25°C ... +80°C                      ambient temperature: -20°C ... +60°C                      voltage tolerance: +10 %</p> <table border="0"> <tr> <td>colour</td> <td>blue</td> <td><b>L5,5K12UB</b></td> </tr> <tr> <td></td> <td>green</td> <td><b>L5,5K12UG</b></td> </tr> <tr> <td></td> <td>red</td> <td><b>L5,5K12UR</b></td> </tr> <tr> <td></td> <td>white</td> <td><b>L5,5K12UW</b></td> </tr> <tr> <td></td> <td>yellow</td> <td><b>L5,5K12UY</b></td> </tr> </table>	colour	blue	<b>L5,5K12UB</b>		green	<b>L5,5K12UG</b>		red	<b>L5,5K12UR</b>		white	<b>L5,5K12UW</b>		yellow	<b>L5,5K12UY</b>	
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	yellow	<b>L5,5K12UY</b>															
	<p><b>Ultra-bright LED, T5,5K socket - 24V</b>                      with integrated series resistor and single-wave rectifier                      for 24V AC/DC (7/14 mA)                      When connecting to DC, the correct polarity must be observed:                      + ... X1/- ... X2                      storage temperature: -25°C ... +80°C                      ambient temperature: -20°C ... +60°C                      voltage tolerance: +10 %</p> <table border="0"> <tr> <td>colour</td> <td>blue</td> <td><b>L5,5K24UB</b></td> </tr> <tr> <td></td> <td>green</td> <td><b>L5,5K24UG</b></td> </tr> <tr> <td></td> <td>red</td> <td><b>L5,5K24UR</b></td> </tr> <tr> <td></td> <td>white</td> <td><b>L5,5K24UW</b></td> </tr> <tr> <td></td> <td>yellow</td> <td><b>L5,5K24UY</b></td> </tr> </table>	colour	blue	<b>L5,5K24UB</b>		green	<b>L5,5K24UG</b>		red	<b>L5,5K24UR</b>		white	<b>L5,5K24UW</b>		yellow	<b>L5,5K24UY</b>	
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Illustration	Description	Type															
	<p><b>Two-colour LED, T5,5K socket - 24V</b> with integrated series resistor colour dependent on polarity Storage temperature: -25°C ... +80°C Ambient temperature: -20°C ... +60°C Voltage tolerance: + 10 %</p>	<p><b>L5,5K24RG</b></p>															
	<p><b>Ultra-bright LED</b> solder pins, grid 2.54 mm ready-made for CTP_485</p>	<table border="0"> <tr><td>900 mcd</td><td>blue</td><td><b>LED3UB</b></td></tr> <tr><td>2760 mcd</td><td>green</td><td><b>LED3UG</b></td></tr> <tr><td>1800 mcd</td><td>red</td><td><b>LED3UR</b></td></tr> <tr><td>3680 mcd</td><td>white</td><td><b>LED3UW</b></td></tr> <tr><td>1800 mcd</td><td>yellow</td><td><b>LED3UY</b></td></tr> </table>	900 mcd	blue	<b>LED3UB</b>	2760 mcd	green	<b>LED3UG</b>	1800 mcd	red	<b>LED3UR</b>	3680 mcd	white	<b>LED3UW</b>	1800 mcd	yellow	<b>LED3UY</b>
900 mcd	blue	<b>LED3UB</b>															
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1800 mcd	yellow	<b>LED3UY</b>															
	<p><b>LED Adapter</b> for LED's of 3 and 5 mm Ø to be used in T5.5K sockets, an external resistor must be provided.</p>	<p><b>LA5,5</b></p>															
	<p><b>Incandescent Lamp with T5.5K socket</b></p> <table border="0"> <tr><td>6V / 1,2W (200mA)</td><td><b>T5,5K-6V</b></td></tr> <tr><td>12V / 1,2W (100mA)</td><td><b>T5,5K-12V</b></td></tr> <tr><td>24V / 1,2W (50mA)</td><td><b>T5,5K-24V</b></td></tr> <tr><td>30V / 1,2W (40mA)</td><td><b>T5,5K-30V</b></td></tr> <tr><td>36V / 1,2W (35mA)</td><td><b>T5,5K-36V</b></td></tr> <tr><td>48V / 1,2W (25mA)</td><td><b>T5,5K-48V</b></td></tr> <tr><td>60V / 1,2W (20mA)</td><td><b>T5,5K-60V</b></td></tr> </table>	6V / 1,2W (200mA)	<b>T5,5K-6V</b>	12V / 1,2W (100mA)	<b>T5,5K-12V</b>	24V / 1,2W (50mA)	<b>T5,5K-24V</b>	30V / 1,2W (40mA)	<b>T5,5K-30V</b>	36V / 1,2W (35mA)	<b>T5,5K-36V</b>	48V / 1,2W (25mA)	<b>T5,5K-48V</b>	60V / 1,2W (20mA)	<b>T5,5K-60V</b>		
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Central Units  
 Bus Technology  
 Relays  
 Analog Switches  
 Power Supplies  
 Terminal Blocks

# Contact Blocks

Faston terminals 2.8x0.8 mm

Illustration

Description

Type



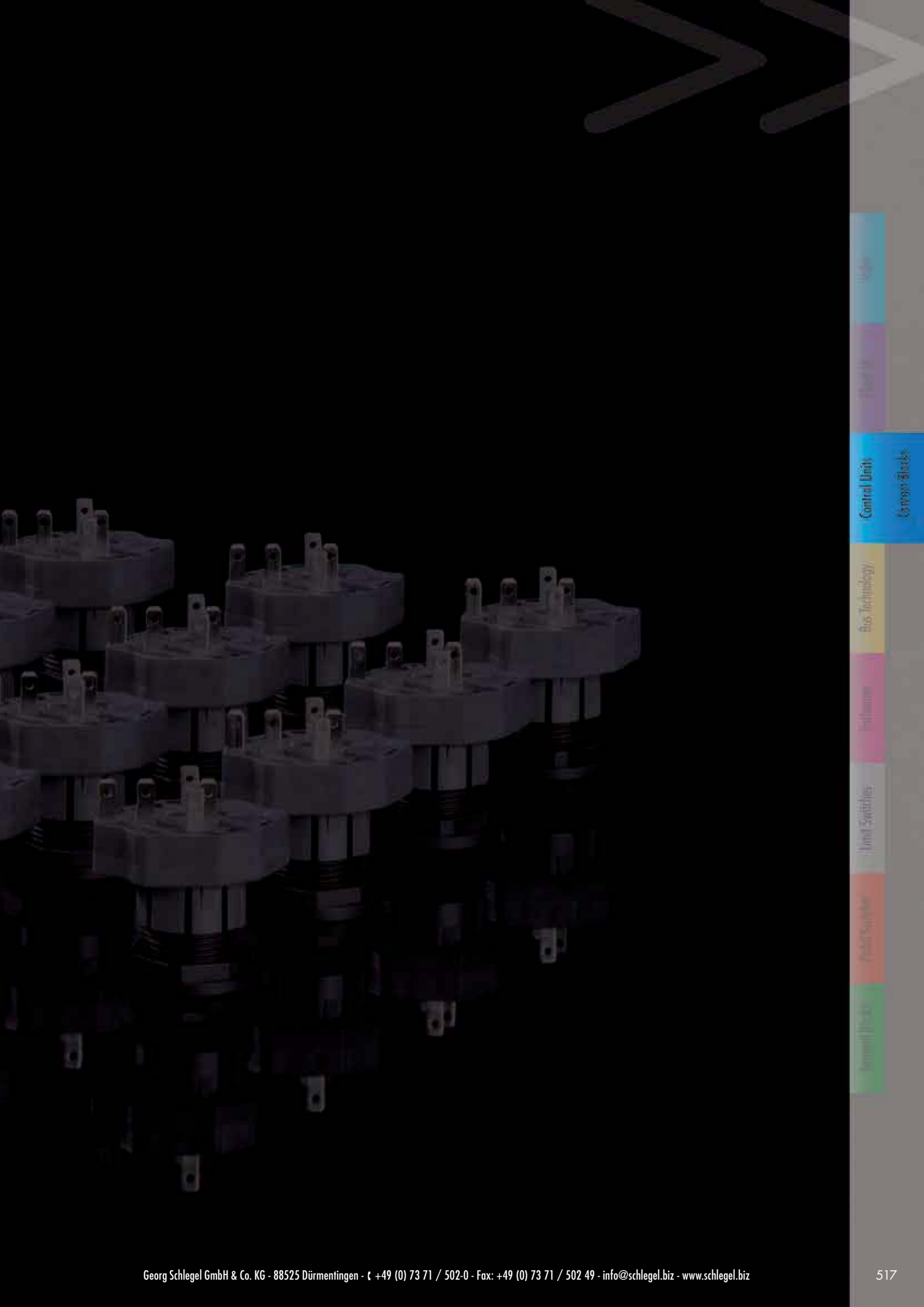
**Series Condensator  
(RC combination)**

**VC1**

entirely sealed, with a safe-to-touch  
Faston terminal 2.8 x 0.8 mm and  
one partially insulated Faston clamp  
2.8 x 0.8 mm, for the operation of  
incandescent lamps:

48 V (25 mA) at 240 V ~ 50 Hz  
130 V (20 mA) at 240 V ~ 50 Hz





Wider

Platz

Control Units  
Control Units

Bus Technology

Terminal

Mini Switches

Panel Switches

Terminal Blocks





## General Data

Type Reference:	PTF..., PTP...
Description:	Contact block, positive opening contact
Approvals:	CE, GOST-R, TUV_Süd, UkrSepro
Protection class:	II (protective insulation)
Operation travel:	
Connection type:	Faston terminals 2.8x0.8 mm / PCB-mount terminals
Contact material:	AgNi
Max. storage temperature:	-40°C ... 80°C
Max. operating temperature:	-25°C ... 70°C
Mechanical life:	1m operations
Electrical life (rated load):	1m operations at rated load AC
Contact resistance NO:	< 50 mOhm (new state)
Contact resistance NC:	< 100 mOhm (new state)
Min. current:	1 mA (under laboratory conditions)
Min. voltage:	5 V
Bouncing time NO:	< 10ms
Bouncing time NC:	< 10ms
Positive opening contact:	acc. to EN60947-5-1, appendix. K

## Electrical data acc. to IEC/EN 60947-5-1 (VDE 0660 Sect. 200)

	alternate current	direct current
Utilisation category:	AC15 B300	DC
Rated insulation voltage Ui:	250 V	250V
Rated operating voltage Ue:	240V / 120V	240V / 120V
Rated operating current Ie:	1.5A / 3A	0.27A / 0.55A
Breaking capacity:	10Ie	1.1Ie
Continuous thermal current:	5A	2.5A

## Electrical Features

Operational current AC/DC:	100 mA
Operational voltage AC/DC:	42V
Rated insulation voltage:	50V AC/DC
Electrical life (24DC / 10mA):	1m

## Environmental Tests

Shock resistance, IEC 600-68-2-27:	50g at 11 ms amplitude, semi-sinusoidal
Vibration resistance, IEC 600-68-2-6:	5g at 10...500Hz
Constant climatic resistance:	IEC 600-68-2-3 and 2-30
Resistance to alternating atmosphere:	IEC 600-68-2-14 and 2-33
Salt spray:	IEC 600-68-2-11
Resistance to soldering heat:	IEC 600-68-2-20
Soldering method:	wave and manual soldering

# Contact Blocks

PCB-mount terminals

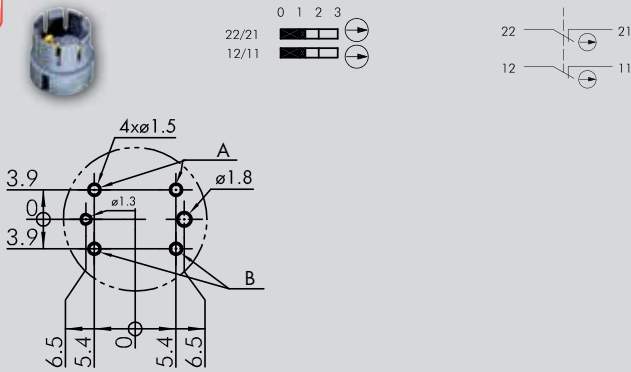
Illustration	Description	Type
<p>3mm</p> <p>0 1 2 3</p> <p>22/21 12/11</p> <p>Ø19</p> <p>ø3.5 4xø1.5 ø1.8</p> <p>7.3 3.9 0 3.9</p> <p>7.3 6.5 5.4 0 5.4 6.5</p>	<p><b>Contact Unit for Emergency Stops, momentary 2NC</b></p> <p>PCB-mount terminals</p> <p>suitable actuators</p> <p>contact material AgNi</p> <p>contact material AgNi, gold-plated</p>	<p><b>PTPOO</b></p> <p><b>PTPOO_AU</b></p>
<p>3mm</p> <p>0 1 2 3</p> <p>22/21 14/13</p> <p>Ø19</p> <p>ø3.5 4xø1.5 ø1.8</p> <p>7.3 3.9 0 3.9</p> <p>7.3 6.5 5.4 0 5.4 6.5</p>	<p><b>Contact Unit for Emergency Stops, momentary 1NC + 1NO</b></p> <p>PCB-mount terminals</p> <p>suitable actuators</p> <p>contact material AgNi</p> <p>contact material AgNi, gold-plated</p>	<p><b>PTPOI</b></p> <p><b>PTPOI_AU</b></p>
<p>4mm</p> <p>0 1 2 3 4</p> <p>22/21 12/11</p> <p><b>LED</b></p> <p>ø1.80 7.8 10.8 13.0</p> <p>ø1.30 ø1.50</p> <p>ø1.80 7.8 2.6 10.8 13.0</p> <p>ø1.00 ø1.30 ø1.50</p>	<p><b>Contact Unit, momentary, for FRUV/FRUVL 2NC</b></p> <p>PCB-mount terminals</p> <p>Mounting instructions see chapter "Operating Instruction of Emergency Stops"</p> <p>Illumination</p> <p>The contact unit will accept a 3 mm LED, without series resistor</p> <p>Positive opening: &gt; 3 mm</p> <p>contact material AgNi</p> <p>contact material AgNi, gold-plated</p>	<p><b>PTOO</b></p> <p><b>PTOO_AU</b></p>

Illustration

Description

Type

3mm



**Contact Unit for Emergency Stops, momentary 2NC**

PCB-mount terminals  
2 positive opening NC contacts  
(no snap-action)

suitable actuators



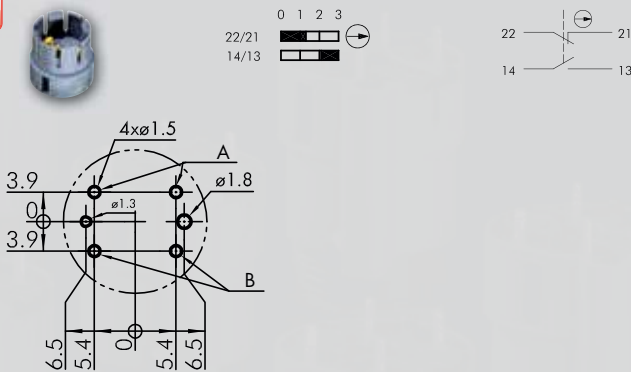
contact material AgNi

contact material AgNi, gold-plated

**PTFPOO**

**PTFPOO\_AU**

3mm



**Contact Unit for Emergency Stops, momentary 1NC + 1NO**

PCB-mount terminals  
1 positive opening NC + 1 NO  
(no snap-action)

suitable actuators



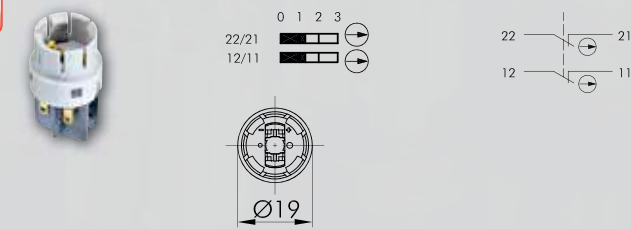
contact material AgNi

contact material AgNi, gold-plated

**PTFPOI**

**PTFPOI\_AU**

3mm



**Contact Unit for Emergency Stops, momentary 2NC**

Faston terminals 2.8x0.8 mm

suitable actuators



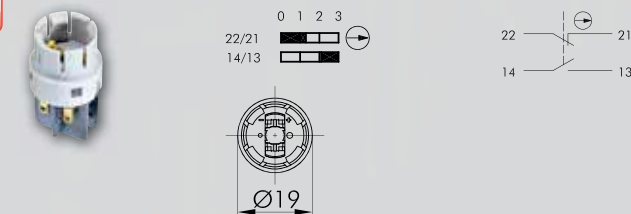
contact material AgNi

contact material AgNi, gold-plated

**PTFOO**

**PTFOO\_AU**

3mm



**Contact Unit for Emergency Stops, momentary 1NC + 1NO**

Faston terminals 2.8x0.8 mm

suitable actuators



contact material AgNi




contact material AgNi, gold-plated

**PTFOI**

**PTFOI\_AU**

# Contact Blocks

PCB-mount terminals

Illustration	Description	Type
	<b>Insulating Case</b> for Faston clamp FH2,8, slip on from the front	<b>IH2,8</b>
	<b>Faston Clamp 2.8 x 0.8 mm with snap-in pin</b> Cross section 0.75 - 1.50 mm <sup>2</sup> , brass, with pin to snapfit into the socket XA, XAL and the insulating case IH2.8	<b>FH2,8</b>
	<b>Double Faston</b> for the connection of 2 Faston clamps FH2.8	<b>FD2,8</b>





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