**General Data**

Type Reference: CTLF, CTF, CTLF_250, CTF_250

Description: Illuminated Electronic Contact Block with snap action

Approvals: cCSAus, CE

Protection class: II (protective insulation)

Operation travel: 3 mm

Connection type: Faston terminals 2.8x0.8 mm

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 LEDs

Mechanical life:
- Electrical life (rated load): 1 m operations at rated load
- Contact resistance NO: < 50 mOhm (new state)
- Contact resistance NC: < 100 mOhm (new state)
- Bouncing time NO: < 10 ms
- Bouncing time NC: < 10 ms

**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

**Electrical Data acc. to EN 61058-1 “micro disconnection”, μ**

Rated voltage: 250V-

Rated current: max. 100 mA

Contact opening distance: < 3 mm (μ)

Creepage resistance: II / PTI 400V

Insulation resistance: > 100 MOhm/500 V

Test voltage: 500V [61058-1 Tab.12]

Pollution degree: 2

Electrical life (additional test): 50000

**Note**

types CTLF_250, CTF_250

The applicability of the “micro disconnection” (μ) acc. to EN 61058-1 is regulated in the relative product standards which have to be observed by the customer (product designer).

Faston terminals 2.8x0.8mm are not suitable for manual soldering.

**Elektrische Daten nach C22.2 No. 14-10**

Rated voltage: 20mV … 48V AC/DC

Rated current: 0.01mA … 100mA
Mounting Instructions

1. 

2. 

3. 

KLICK

20°
### Contact Blocks

Faston terminals 2.8x0.8 mm

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Contact Unit, momentary 1 inverter" /></td>
<td>Contact Unit, momentary 1 inverter&lt;br&gt;Faston terminals 2.8x0.8 mm&lt;br&gt;contact material gold-plated 1.5μm&lt;br&gt;suitable actuators</td>
<td>CTF</td>
</tr>
<tr>
<td><img src="image" alt="Contact Unit, momentary, for 250V~ 1 inverter" /></td>
<td>Contact Unit, momentary, for 250V~ 1 inverter&lt;br&gt;Faston terminals 2.8x0.8 mm&lt;br&gt;EN 61058-1 μ&lt;br&gt;250V~/100mA, μ&lt;br&gt;micro-disconnection (μ)&lt;br&gt;contact material gold-plated 1.5μm&lt;br&gt;suitable actuators</td>
<td>CTF_250</td>
</tr>
<tr>
<td><img src="image" alt="Illuminated Contact Unit, momentary 1 inverter" /></td>
<td>Illuminated Contact Unit, momentary 1 inverter&lt;br&gt;Faston terminals 2.8x0.8 mm&lt;br&gt;lamp socket T5.5K&lt;br&gt;contact material gold-plated 1.5μm&lt;br&gt;suitable actuators</td>
<td>CTLF</td>
</tr>
<tr>
<td><img src="image" alt="Illuminated Contact Unit, momentary, for 250V~ 1 inverter" /></td>
<td>Illuminated Contact Unit, momentary, for 250V~ 1 inverter&lt;br&gt;Faston terminals 2.8x0.8 mm&lt;br&gt;EN 61058-1 μ&lt;br&gt;250V~/100mA, μ&lt;br&gt;micro-disconnection (μ)&lt;br&gt;LED max. 60V&lt;br&gt;lamp socket T5.5K&lt;br&gt;contact material gold-plated 1.5μm&lt;br&gt;suitable actuators</td>
<td>CTLF_250</td>
</tr>
<tr>
<td><img src="image" alt="Lampholder" /></td>
<td>Lampholder&lt;br&gt;Faston terminals 2.8x0.8 mm&lt;br&gt;lamp socket T5.5K&lt;br&gt;suitable pilot light heads</td>
<td>CLF</td>
</tr>
<tr>
<td><img src="image" alt="Insulating Case" /></td>
<td>Insulating Case&lt;br&gt;for Faston clamp FH2.8, slip on from the front</td>
<td>IH2.8</td>
</tr>
<tr>
<td><img src="image" alt="Faston Clamp 2.8 x 0.8 mm with snap-in pin" /></td>
<td>Faston Clamp 2.8 x 0.8 mm with snap-in pin&lt;br&gt;Cross section 0.75 - 1.50 mm², tin-plated brass, with pin to snapfit into the sockets XA, XAL and the insulating case IH2.8</td>
<td>FH2.8</td>
</tr>
</tbody>
</table>
## Contact Blocks

Faston terminals 2.8x0.8 mm

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Double Faston" /></td>
<td>for the connection of 2 Faston clamps FH2.8</td>
<td>FD2,8</td>
</tr>
<tr>
<td><img src="image" alt="Plug-in Socket CAFP2" /></td>
<td>PCB-mount terminals with 2 contact pins to fit CLF lampholder</td>
<td>CAFP2</td>
</tr>
<tr>
<td><img src="image" alt="Plug-in Socket CAFP3" /></td>
<td>PCB-mount terminals with 3 contact pins to fit CTF contact unit</td>
<td>CAFP3</td>
</tr>
</tbody>
</table>

Made in Germany
<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plug-in Socket</td>
<td>PCB-mount terminals with 5 contact pins to fit CTLF contact unit</td>
<td>CAFPS</td>
</tr>
</tbody>
</table>

### Ultra-bright LED, T5,5K socket, 12V
- with integrated series resistor and half-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: white

**L5,5K12UW**

### Ultra-bright LED, T5,5K socket, 24V
- with integrated series resistor and half-wave rectifier, for 24 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: white

**L5,5K24UW**
**Contact Blocks**  
Faston terminals 2.8x0.8 mm

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
</table>
| ![Two-colour LED](image) | **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  
Dominant wavelength: [nm] 625, 525  
| L5,5K24RG |
| ![Ultra-bright LED](image) | **Ultra-bright LED**  
solder pins, grid 2.54 mm  
ready-made for CTP_485  
3680 mcd white  | LED3UW |
| ![LED Adapter](image) | **LED Adapter**  
for LEDs 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 |