**General Data**

Type Reference: CZ...
Description: Electronic Contact Block with snap action
Approvals: CCC, cCSAus, NV, CE
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 LEDs
Mechanical life:
Electrical life (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 IEC/EN 60947-5-1 (VDE 0660 Sect. 200)**

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

**Remark**

GB14048.5-2008 (IEC60947-5-1)

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

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

1. 

2. 

3.
<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Contact Unit, momentary</strong>&lt;br&gt;<strong>1 inverter</strong>&lt;br&gt;PCB-mount terminals&lt;br&gt;can only be combined with the contact units PTP... and C..._485&lt;br&gt;contact material gold-plated 1.5μm</td>
<td>CZTP</td>
<td></td>
</tr>
<tr>
<td><strong>Illuminated Contact Unit, momentary</strong>&lt;br&gt;<strong>1 inverter</strong>&lt;br&gt;PCB-mount terminals&lt;br&gt;can only be combined with the contact units PTP... and C..._485&lt;br&gt;contact material gold-plated 1.5μm</td>
<td>CZTLP</td>
<td></td>
</tr>
<tr>
<td><strong>Contact Unit, momentary</strong>&lt;br&gt;<strong>2 inverters</strong>&lt;br&gt;PCB-mount terminals&lt;br&gt;2 independent single-circuit inverters, can only be combined with the contact units PTP... and C..._485&lt;br&gt;contact material gold-plated 1.5μm</td>
<td>CZTP2</td>
<td></td>
</tr>
</tbody>
</table>
### Contact Blocks

**PCB-mount terminals**

<table>
<thead>
<tr>
<th>Illustration</th>
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</tr>
</thead>
</table>
| ![Illuminated Contact Unit](image1.png) | **Illuminated Contact Unit, momentary** 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  |
| ![Contact unit with two-piece plunger](image2.png) | **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

#### 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 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

---
## Contact Blocks
### PCB-mount terminals

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
</table>
| ![Ultra-bright LED](image1) | **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 |
| ![Two-colour LED](image2) | **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]: 1,4  
Brightness [mcd]: 2300  
Dominant wavelength: [nm] 625  
colour: red/green | L5,5K24RG |
| ![Ultra-bright LED](image3) | **Ultra-bright LED**  
solder pins, grid 2.54 mm  
ready-made for CTP_485  
3680 mcd white | LED3UW |
| ![LED Adapter](image4) | **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 |