General Data

Type Reference: BF...K
Description: Contact Block
Approvals: CCC, cCSAus, ENEC10, VDE, CE, NV, UR
Protection class: II (protective insulation)
Operation travel: 3 mm
Connection type: screw connection
Contact material: AgNi
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:
Electrical life (rated load):
Contact resistance NO: < 20 mOhm (new state)
Contact resistance NC: < 20 mOhm (new state)
Min. current: 1 mA
Min. voltage: 5 V
Bouncing time NO: < 10ms
Bouncing time NC: < 10ms

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

<table>
<thead>
<tr>
<th>Utilisation category:</th>
<th>alternate current</th>
<th>direct current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated insulation voltage Ui:</td>
<td>250 V / 250V</td>
<td>300 V / 250V, 125V, 60V, 24V</td>
</tr>
<tr>
<td>Rated operating voltage Ue:</td>
<td>1.5A / 1.1A</td>
<td>0.2A / 0.4A, 1A / 2A</td>
</tr>
<tr>
<td>Rated operating current Ie:</td>
<td>10mA</td>
<td>6A</td>
</tr>
<tr>
<td>Breaking capacity:</td>
<td>10mA</td>
<td></td>
</tr>
<tr>
<td>Continuous thermal current:</td>
<td>6 A</td>
<td></td>
</tr>
</tbody>
</table>

Electrical data acc. to IEC/EN 61058-1 (VDE 0630 Sect. 1)

| Rated voltage Ue: | 250 V~ |
| Rated current le: | 6(4) A |

Technical Data - Lamp

Lamp socket: T5,5K / W2x4,6d
Max. lamp voltage: 60V
Max. lamp output: 1.2W
Definition: X1...anode, X2...cathode

Electrical Features

Operational voltage: 20mV ... 42V AC/DC
Switching current: 1mA ... 250mA
Contact resistance (new state): < 50 mOhm
Tightening torque (screw terminal): 0.4 Nm

Additional Electrical Data

Overvoltage category: II
Mounting Instructions

1.

2.

3.

KLICK

20°
## Contact Blocks

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Contact Block" /></td>
<td>Contact Block, maintained 1NC + 1NO screw connection 2.5 mm² suitable actuators</td>
<td>BFK</td>
</tr>
<tr>
<td><img src="image2.png" alt="Illuminated Contact Block" /></td>
<td>Illuminated Contact Block, maintained 1NC + 1NO screw connection 2.5 mm² lamp socket W2x4,6d</td>
<td>BFLK</td>
</tr>
<tr>
<td><img src="image3.png" alt="Illuminated Contact Block" /></td>
<td>Illuminated Contact Block, maintained 1NC + 1NO screw connection 2.5 mm² lamp socket T5,5K</td>
<td>BFL5K</td>
</tr>
<tr>
<td><img src="image4.png" alt="Contact Block" /></td>
<td>Contact Block, maintained 2NO screw connection 2.5 mm²</td>
<td>BFIK</td>
</tr>
<tr>
<td><img src="image5.png" alt="Illuminated Contact Block" /></td>
<td>Illuminated Contact Block, maintained 2NO screw connection 2.5 mm² lamp socket W2x4,6d</td>
<td>BFLIK</td>
</tr>
<tr>
<td><img src="image6.png" alt="Illuminated Contact Block" /></td>
<td>Illuminated Contact Block, maintained 2NO screw connection 2.5 mm² lamp socket T5,5K</td>
<td>BFLI5K</td>
</tr>
<tr>
<td><img src="image7.png" alt="Lampholder" /></td>
<td>Lampholder screw connection 2.5 mm² lamp socket W2x4,6d suitable pilot light heads</td>
<td>BL4K</td>
</tr>
<tr>
<td><img src="image8.png" alt="Lampholder" /></td>
<td>Lampholder screw connection 2.5 mm² T5,5K socket lamp socket T5,5K suitable pilot light heads</td>
<td>BL5K</td>
</tr>
<tr>
<td>Illustration</td>
<td>Description</td>
<td>Type</td>
</tr>
<tr>
<td>--------------</td>
<td>-------------</td>
<td>------</td>
</tr>
</tbody>
</table>
| ![Ultra-bright LED, W2x4.6d socket, 12V](image) | **Ultra-bright LED, W2x4.6d socket, 12V**  
with half-wave rectifier, for 12 V AC/DC  
(6/12 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 | L2X4,6-12UW |
| ![Ultra-bright LED, W2x4.6d socket, 24V](image) | **Ultra-bright LED, W2x4.6d socket, 24V**  
with half-wave rectifier, for 24 V AC/DC  
(2/4 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 | L2X4,6-24UW |
| ![Ultra-bright LED, T5,5K socket, 12V](image) | **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](image) | **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 |
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<th>Illustration</th>
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</thead>
</table>
| ![Two-colour LED, T5.5K socket - 24V](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  
colour red/green | 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 |
| ![Voltage Reducer (for LEDs)](image) | **Voltage Reducer (for LEDs)**  
Faston terminals 2.8x0.8 mm  
to operate a LED at 230V AC | VE_LED230 |
| ![Cable Set with wire end ferrules](image) | **Cable Set with wire end ferrules**  
suitable for VE_LED230 | VE_VKAЕ |