**General Data**

Type Reference: ET...
Description: Contact Block, positive opening contact
Approvals: CE, CSA, UL
Protection class: II (protective insulation)
Operation travel: 6 mm
Connection type: screw connection, finger-protected acc. to VBG4
Contact material: AgNi
Max. storage temperature: -50°C ... 70°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 switching cycles
  - 1 m at 250 V/10(6) A
  - 250,000 at 250 V/16(10) A
  - 500,000 at 250 V/5 A (AC15)
Contact resistance NO:
- < 20 mOhm (new state)
Contact resistance NC:
- < 20 mOhm (new state)
Min. current: 1 mA (under laboratory conditions)
Min. voltage: 5 V
Bouncing time NO:
- < 10 ms
Bouncing time NC:
- < 10 ms
Positive opening contact:
- acc. to EN60947-5-1, appendix. K

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

<table>
<thead>
<tr>
<th>Alternate Current</th>
<th>Direct Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated insulation voltage (Ui):</td>
<td>AC15 / DC13</td>
</tr>
<tr>
<td>400V</td>
<td>400V</td>
</tr>
<tr>
<td>Rated operating voltage (Ue):</td>
<td>250V / 400V</td>
</tr>
<tr>
<td>5A / 3A</td>
<td>0.12A / 0.2A / 0.4A / 1A / 2A</td>
</tr>
<tr>
<td>Breaking capacity:</td>
<td>10(6)A / 6(3)A</td>
</tr>
<tr>
<td>Continuous thermal current:</td>
<td>10A</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Rated voltage (Ue):</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 V~ / 440 V~</td>
</tr>
<tr>
<td>10(6) A / 6(3) A</td>
</tr>
</tbody>
</table>

**Technical Data - Lamp**

<table>
<thead>
<tr>
<th>Lamp socket:</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA9s</td>
</tr>
<tr>
<td>Max. lamp voltage:</td>
</tr>
<tr>
<td>250 V / (CSA max. 150V)</td>
</tr>
<tr>
<td>Max. lamp output:</td>
</tr>
<tr>
<td>2 W</td>
</tr>
<tr>
<td>Definition:</td>
</tr>
<tr>
<td>X1...anode, X2...cathode</td>
</tr>
</tbody>
</table>

**Electrical Features**

<table>
<thead>
<tr>
<th>Operational voltage:</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mV ... 42V AC/DC</td>
</tr>
<tr>
<td>Operational current:</td>
</tr>
<tr>
<td>1 mA ... 250 mA</td>
</tr>
<tr>
<td>Contact resistance [new state]:</td>
</tr>
<tr>
<td>&lt; 50 mOhm</td>
</tr>
</tbody>
</table>

**Note**

Note for emergency-stop contact blocks:
In case of inverters of the Za form (in terms of EN 60947-5-1), only the NC contact must be used for the remotely controlled safety circuit.
Mounting Instructions

1.

2.
<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
</table>
| ![Contact Block, momentary 1NC + 1NO](image) | **Contact Block, momentary 1NC + 1NO**
screw connection, finger-protected acc. to VBG4

**suitable actuators**

![suitable actuators](image)

**contact material** AgNi

**ETR** |
| ![Contact Block, momentary 2NC+2NO](image) | **Contact Block, momentary 2NC+2NO**
screw connection, finger-protected acc. to VBG4

**suitable actuators**

![suitable actuators](image)

**contact material** AgNi

**ETR2** |
| ![Illuminated Contact Block, momentary 1NC + 1NO](image) | **Illuminated Contact Block, momentary 1NC + 1NO**
screw connection, finger-protected acc. to VBG4

**suitable actuators**

![suitable actuators](image)

**lamp socket** BA9s

**ETLR** |
| ![Illuminated Contact Block, momentary 2NC+2NO](image) | **Illuminated Contact Block, momentary 2NC+2NO**
screw connection, finger-protected acc. to VBG4

**suitable actuators**

![suitable actuators](image)

**lamp socket** BA9s

**ETLR2** |
| ![Lampholder BA9s](image) | **Lampholder BA9s**
screw connection

**suitable pilot light heads**

![suitable pilot light heads](image)

**colour** black

**EL9R** |
| ![Lampholder](image) | **Lampholder**
screw connection

**suitable pilot light head**

![suitable pilot light head](image)

**colour** white

**L9R** |
| ![Ultra-bright LED, BA9s socket](image) | **Ultra-bright LED, BA9s socket**
with integrated bridge rectifier for 24V AC/DC, 15mA

**colour** white

**LD9-24UW** |
## Contact Blocks

screw connection, finger-protected acc. to VBG4

<table>
<thead>
<tr>
<th>Illustration</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
</table>
| ![Mega-bright LED, BA9s](image1.png) | Mega-bright LED, BA9s  
with integrated bridge rectifier for 24V ..  28V AC/DC, 15.5mA (typ. 24V)  
colour: white | LD9-24MW |
| ![Ultra-bright LED, BA9s](image2.png) | Ultra-bright LED, BA9s  
with integrated single-wave rectifier for 230V AC, 3mA  
colour: white | LD9-230UW |
| ![Flashing LED, BA9s](image3.png) | Flashing LED, BA9s  
for 24V  