BLOCKTRAB Type 2
Surge protection for LED lighting
Surge protection and device protection for LED lighting systems

LED technology provides durable solutions for road and building lighting. Premature blackouts caused by surge voltages significantly reduce the savings potential of energy-saving LED lights. This is often caused by ballasts which are sensitive to transient voltages. The dimensions of the LED arresters are such that they can be installed directly in the lamp. Thanks to the increased insulation, the product can be used in LED applications in protection class II equipment without any problems.

**Typical installation locations**

1. Lamp
2. Cable terminal box in the post
Your advantages:
- Increased (double) insulation for use in insulation protection class II
- L’-connection to expand signaling of the protection status
- For insulated and grounded lighting installations
- Low voltage protection level of < 1.3 kV
- Nominal voltage range 100 V AC … 277 V AC
- Tested and certified by KEMA
- High surge current and surge voltage resistance of up to 20 kV

<table>
<thead>
<tr>
<th>Protection class</th>
<th>Protection class I (PCI)</th>
<th>Protection class II (PCII)</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC test classification / EN type</td>
<td>II / III, T2/T3</td>
<td>II / III, T2/T3</td>
</tr>
<tr>
<td>Nominal voltage $U_N$</td>
<td>100 – 277 V AC</td>
<td>100 – 277 V AC</td>
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<tr>
<td>Rated load current $I_L$</td>
<td>16 A</td>
<td>16 A</td>
</tr>
<tr>
<td>Maximum continuous voltage $U_C$</td>
<td>320 V AC</td>
<td>320 V AC</td>
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<tr>
<td>Nominal discharge current $I_{(8/20)\mu s}$</td>
<td>5 kA</td>
<td>5 kA</td>
</tr>
<tr>
<td>Total discharge current $I_{\text{max}}(8/20)\mu s$</td>
<td>20 kA</td>
<td>–</td>
</tr>
<tr>
<td>Voltage protection level $U_P$ (L-N)</td>
<td>$\leq$ 1.3 kV</td>
<td>$\leq$ 1.3 kV</td>
</tr>
<tr>
<td>Combined surge $U_{OC}$ (N-PE)</td>
<td>20 kV</td>
<td>20 kV</td>
</tr>
<tr>
<td>Dimensions (W/H/D)</td>
<td>37 / 59 / 33 mm</td>
<td>37 / 59 / 33 mm</td>
</tr>
</tbody>
</table>

Through wiring

- Connecting a grounded device
- Connecting an insulated device

Branch wiring

- Connecting a grounded device
- Connecting an insulated device

The L’ connection can be used to transfer the signal to the lamp. If the surge protection disconnect device is triggered due to overload, the light switches off as well. This makes servicing and routine inspection of the surge protective devices much easier.
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Product range

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- Industrial Ethernet
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- Lighting and signaling
- Marking and labeling
- Measurement and control technology
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- Protective devices
- Relay modules
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