**Product description**

- **CELM Energy Efficiency Index EEI = A2**
- Nominal life up to 50,000 h (at ta 50 °C with a failure rate max. 0.2 % per 1,000 h)
- Large temperature range (for values see table)
- Constant luminous flux irrespective of fluctuations in mains voltage
- Lamp preheating for min. 30,000 starts without replacement of lamps
- Designed for THD < 10 %
- For luminaires of protection class I and protection class II
- Automatic start after replacement of defective lamps
- Safety shutdown of defective lamps and at end of lamp life
- Plug terminal for rapid automatic or manual wiring
- For emergency lighting systems as per EN 50172
- 5 years guarantee

**Technical data**

- **Mains voltage range:** 220 – 240 V
- **AC voltage range:** 198 – 264 V
- **DC voltage range:** 176 – 280 V (lamp start ≥ 198 V DC)
- **Mains frequency:** 0 / 50 / 60 Hz
- **Overvoltage protection:** 320 V AC, 1 h
- **Defined warm start:** ≤ 1.5 s
- **Operating frequency:** ≥ 39.5 kHz
- **Type of protection:** IP20

**Standards**

- [link to page 2]

**Wiring diagrams and installation examples**

- [link to page 5]

### Specific technical data

<table>
<thead>
<tr>
<th>Lamp wattage</th>
<th>Lamp type</th>
<th>Article number</th>
<th>Dimensions L x W x H</th>
<th>Hole spacing D</th>
<th>Lamp power</th>
<th>Circuit power</th>
<th>EEI</th>
<th>Current at 50 Hz</th>
<th>λ at 50 Hz</th>
<th>to point max.</th>
<th>Ambient temperature ta</th>
<th>tca/ta for ≥ 50,000 h</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>For luminaires with 1 lamp</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>1 x 18 W T8</td>
<td>PC 1x18 T8 TOP sl</td>
<td>22185222</td>
<td>230 x 30 x 28 mm</td>
<td>220 mm</td>
<td>16 W</td>
<td>18.3 W A2 BATT</td>
<td>A2</td>
<td>0.085 A</td>
<td>0.079 A</td>
<td>0.98</td>
<td>0.96</td>
<td>65 °C</td>
</tr>
<tr>
<td>1 x 36 W T8</td>
<td>PC 1x36 T8 TOP sl</td>
<td>22185223</td>
<td>230 x 30 x 28 mm</td>
<td>220 mm</td>
<td>32 W</td>
<td>35.2 W A2 BATT</td>
<td>A2</td>
<td>0.162 A</td>
<td>0.151 A</td>
<td>0.99</td>
<td>0.97</td>
<td>65 °C</td>
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<tr>
<td>1 x 58 W T8</td>
<td>PC 1x58 T8 TOP sl</td>
<td>22185224</td>
<td>230 x 30 x 28 mm</td>
<td>220 mm</td>
<td>50 W</td>
<td>56.2 W A2</td>
<td>A2</td>
<td>0.258 A</td>
<td>0.241 A</td>
<td>0.99</td>
<td>0.97</td>
<td>70 °C</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2 x 18 W T8</td>
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<td>280 x 30 x 28 mm</td>
<td>270 mm</td>
<td>32 W</td>
<td>53.3 W A2 BATT</td>
<td>A2</td>
<td>0.162 A</td>
<td>0.152 A</td>
<td>0.99</td>
<td>0.97</td>
<td>65 °C</td>
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<tr>
<td>2 x 36 W T8</td>
<td>PC 2x36 T8 TOP sl</td>
<td>22185226</td>
<td>280 x 30 x 28 mm</td>
<td>270 mm</td>
<td>64 W</td>
<td>73.4 W A2</td>
<td>A2</td>
<td>0.337 A</td>
<td>0.315 A</td>
<td>0.99</td>
<td>0.97</td>
<td>70 °C</td>
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<tr>
<td>2 x 58 W T8</td>
<td>PC 2x58 T8 TOP sl</td>
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<td>280 x 30 x 28 mm</td>
<td>270 mm</td>
<td>100 W</td>
<td>112.4 W A2</td>
<td>A2</td>
<td>0.516 A</td>
<td>0.483 A</td>
<td>0.99</td>
<td>0.97</td>
<td>75 °C</td>
</tr>
<tr>
<td><strong>For luminaires with 3 or 4 lamps</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>3 x 18 W T8</td>
<td>PC 3/4x18 T8 TOP lp</td>
<td>22185228</td>
<td>280 x 30 x 21 mm</td>
<td>270 mm</td>
<td>48 W</td>
<td>53.2 W A2 BATT</td>
<td>A2</td>
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<td>0.229 A</td>
<td>0.99</td>
<td>0.97</td>
<td>65 °C</td>
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<td>PC 3/4x18 T8 TOP lp</td>
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<td>280 x 30 x 21 mm</td>
<td>270 mm</td>
<td>64 W</td>
<td>69.2 W A2 BATT</td>
<td>A2</td>
<td>0.318 A</td>
<td>0.297 A</td>
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<td>0.97</td>
<td>70 °C</td>
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**Ordering data**

<table>
<thead>
<tr>
<th>Type</th>
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<th>Figure</th>
<th>Packaging, low volume</th>
<th>Packaging, high volume</th>
<th>Weight per pc.</th>
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<tbody>
<tr>
<td>For luminaires with 1 lamp</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC 1x18 T8 TOP sl</td>
<td>22185222</td>
<td>2</td>
<td>50 pc(s).</td>
<td>1,050 pc(s).</td>
<td>0.148 kg</td>
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<tr>
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<td>22185223</td>
<td>2</td>
<td>50 pc(s).</td>
<td>1,050 pc(s).</td>
<td>0.148 kg</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>22185224</td>
<td>2</td>
<td>50 pc(s).</td>
<td>1,050 pc(s).</td>
<td>0.149 kg</td>
</tr>
<tr>
<td>For luminaires with 2 lamps</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>22185225</td>
<td>2</td>
<td>50 pc(s).</td>
<td>900 pc(s).</td>
<td>0.174 kg</td>
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<td>50 pc(s).</td>
<td>900 pc(s).</td>
<td>0.209 kg</td>
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<tr>
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<td>22185227</td>
<td>2</td>
<td>50 pc(s).</td>
<td>900 pc(s).</td>
<td>0.212 kg</td>
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<tr>
<td>For luminaires with 3 or 4 lamps</td>
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<td></td>
</tr>
<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>22185228</td>
<td>1</td>
<td>10 pc(s).</td>
<td>–</td>
<td>0.189 kg</td>
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</table>
FL ballasts
Electronic fixed output

Standards
EN 55015
EN 61347-2-4
EN 61347-2-3
EN 60929
EN 61000-3-2
EN 61547
in accordance with EN 50172
IEC 68-2-64 Fh
IEC 68-2-29 Eb
IEC 68-2-30

Lamp starting characteristics
Warm start
Starting time 1.5 s with AC and DC operation
Cathode heating will be reduced after preheat time

AC operation
Mains voltage:
220 – 240 V 50/60 Hz
198 – 264 V 50/60 Hz including safety tolerance (±10 %)
202 – 254 V 50/60 Hz including performance tolerance (+6 % / -8 %)

DC operation
220 – 240 V 0 Hz
198 – 280 V 0 Hz certain lamp start
176 – 280 V 0 Hz operating range
Light output level in DC operation: 100 %

Emergency lighting
Use in emergency lighting installations according to EN 50172 or for emergency luminaires according to EN 61347-2-3 appendix J.

Instant start after mains interruption < 0.5 s EBLF ≥ 0.5

Mains currents in DC operation

<table>
<thead>
<tr>
<th>Type</th>
<th>lamp type</th>
<th>wattage</th>
<th>mains current at Un = 220 V</th>
<th>mains current at Un = 240 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC 1x18 T8 TOP sl</td>
<td>T8</td>
<td>1x18 W</td>
<td>85 mA</td>
<td>79 mA</td>
</tr>
<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>T8</td>
<td>1x36 W</td>
<td>162 mA</td>
<td>151 mA</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>T8</td>
<td>1x58 W</td>
<td>258 mA</td>
<td>241 mA</td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>T8</td>
<td>2x18 W</td>
<td>162 mA</td>
<td>152 mA</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>T8</td>
<td>2x36 W</td>
<td>337 mA</td>
<td>315 mA</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>T8</td>
<td>2x58 W</td>
<td>516 mA</td>
<td>483 mA</td>
</tr>
<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>T8</td>
<td>3x18 W</td>
<td>244 mA</td>
<td>229 mA</td>
</tr>
<tr>
<td></td>
<td>T8</td>
<td>4x18 W</td>
<td>318 mA</td>
<td>297 mA</td>
</tr>
</tbody>
</table>

Harmonic distortion in the mains supply

<table>
<thead>
<tr>
<th>Type</th>
<th>lamp type</th>
<th>wattage</th>
<th>THD at 230 V/50 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC 1x18 T8 TOP sl</td>
<td>T8</td>
<td>1x18 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>T8</td>
<td>1x36 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>T8</td>
<td>1x58 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>T8</td>
<td>2x18 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>T8</td>
<td>2x36 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>T8</td>
<td>2x58 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>T8</td>
<td>3x18 W</td>
<td>&lt; 10 %</td>
</tr>
<tr>
<td></td>
<td>T8</td>
<td>4x18 W</td>
<td>&lt; 10 %</td>
</tr>
</tbody>
</table>

Output voltage

<table>
<thead>
<tr>
<th>Type</th>
<th>lamp type</th>
<th>wattage</th>
<th>Uout</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC 1x18 T8 TOP sl</td>
<td>T8</td>
<td>1x18 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>T8</td>
<td>1x36 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>T8</td>
<td>1x58 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>T8</td>
<td>2x18 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>T8</td>
<td>2x36 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>T8</td>
<td>2x58 W</td>
<td>400 V</td>
</tr>
<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>T8</td>
<td>3x18 W</td>
<td>350 V</td>
</tr>
<tr>
<td></td>
<td>T8</td>
<td>4x18 W</td>
<td>350 V</td>
</tr>
</tbody>
</table>

Ballast lumen factor (EN 60929 8.1)

<table>
<thead>
<tr>
<th>Type</th>
<th>lamp type</th>
<th>wattage</th>
<th>AC/DC-BLF at U = 198–254 V, 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC 1x18 T8 TOP sl</td>
<td>T8</td>
<td>1x18 W</td>
<td>1.00</td>
</tr>
<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>T8</td>
<td>1x36 W</td>
<td>1.00</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>T8</td>
<td>1x58 W</td>
<td>1.00</td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>T8</td>
<td>2x18 W</td>
<td>1.00</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>T8</td>
<td>2x36 W</td>
<td>1.00</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>T8</td>
<td>2x58 W</td>
<td>1.00</td>
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<tr>
<td>PC 3/4x18 T8 TOP lp</td>
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<td>3x18 W</td>
<td>1.05</td>
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<td>T8</td>
<td>4x18 W</td>
<td>1.00</td>
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</tbody>
</table>
Energy class CELMA EEI = A2 BAT / A2

PC T8 TOP ignition technology (smart heating) optimises lamp start and ensures no energy is wasted. After the lamp has struck the filament heating is reduced automatically to a defined minimum value. This reduction in filament heating saves energy, yet maintains the proper operating conditions for the lamp. The lamp is always operated within specification.

1) according to the EU directives on ecodesign requirements (EC) No. 245/2009 and (EC) No. 347/2010

Ambient Temperature

PC 1x... T8 TOP sl

The nominal ta and tc point are related to the ballast life duration. The relation of tc to ta temperature depends also on the luminaire design. If the measured tc temperature is approx. 5 K below tc max., ta temperature should be checked and eventually critical components (e.g. ELCAP) measured.

Detailed information on request.

PC T8 TOP is designed for an average life-time of 75,000 hours (at ta for ≥ 75,000 h) under reference conditions and with a failure probability of less than 10 %. This corresponds to an average failure rate of 0.15 % for every 1,000 hours of operation.

Humidity: 5 % up to max. 85 %, not condensed
(max. 56 days/year at 85 %)

Storage temperature: -40 °C up to max. +80 °C

The devices have to be within the specified temperature range (ta) before they can be operated.

Expected life-time

<table>
<thead>
<tr>
<th>Type</th>
<th>Lamp type</th>
<th>Lamp wattage</th>
<th>ta</th>
<th>40 °C</th>
<th>50 °C</th>
<th>55 °C</th>
<th>60 °C</th>
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<tbody>
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<td>T8</td>
<td>1x18 W</td>
<td>tc</td>
<td>50 °C</td>
<td>60 °C</td>
<td>65 °C</td>
<td>x</td>
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<tr>
<td>Life-time</td>
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<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>T8</td>
<td>1x36 W</td>
<td>tc</td>
<td>50 °C</td>
<td>60 °C</td>
<td>65 °C</td>
<td>x</td>
</tr>
<tr>
<td>Life-time</td>
<td></td>
<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 1x58 T8 TOP sl</td>
<td>T8</td>
<td>1x58 W</td>
<td>tc</td>
<td>55 °C</td>
<td>65 °C</td>
<td>70 °C</td>
<td>x</td>
</tr>
<tr>
<td>Life-time</td>
<td></td>
<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 2x18 T8 TOP sl</td>
<td>T8</td>
<td>2x18 W</td>
<td>tc</td>
<td>50 °C</td>
<td>60 °C</td>
<td>65 °C</td>
<td>x</td>
</tr>
<tr>
<td>Life-time</td>
<td></td>
<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>T8</td>
<td>2x36 W</td>
<td>tc</td>
<td>55 °C</td>
<td>65 °C</td>
<td>70 °C</td>
<td>x</td>
</tr>
<tr>
<td>Life-time</td>
<td></td>
<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>T8</td>
<td>2x58 W</td>
<td>tc</td>
<td>65 °C</td>
<td>70 °C</td>
<td>75 °C</td>
<td>x</td>
</tr>
<tr>
<td>Life-time</td>
<td></td>
<td></td>
<td></td>
<td>70,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
</tr>
<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>T8</td>
<td>3/4x18 W</td>
<td>tc</td>
<td>50 °C</td>
<td>60 °C</td>
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<tr>
<td>Life-time</td>
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<td></td>
<td></td>
<td>100,000 h</td>
<td>50,000 h</td>
<td>30,000 h</td>
<td>x</td>
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x = not permitted

Maximum loading of automatic circuit breakers

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<tr>
<th>Automatic circuit breaker type</th>
<th>C10</th>
<th>C13</th>
<th>C16</th>
<th>C20</th>
<th>B10</th>
<th>B13</th>
<th>B16</th>
<th>B20</th>
<th>Inrush current</th>
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<td>1.5 mm²</td>
<td>1.5 mm²</td>
<td>2.5 mm²</td>
<td>1.5 mm²</td>
<td>1.5 mm²</td>
<td>1.5 mm²</td>
<td>2.5 mm²</td>
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</tr>
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<td>64</td>
<td>74</td>
<td>104</td>
<td>22</td>
<td>32</td>
<td>37</td>
<td>52</td>
<td>12.9 A</td>
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<tr>
<td>PC 1x36 T8 TOP sl</td>
<td>38</td>
<td>52</td>
<td>60</td>
<td>72</td>
<td>19</td>
<td>26</td>
<td>30</td>
<td>36</td>
<td>17.4 A</td>
</tr>
<tr>
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<td>29</td>
<td>38</td>
<td>47</td>
<td>59</td>
<td>19</td>
<td>28</td>
<td>40</td>
<td>46</td>
<td>17.9 A</td>
</tr>
<tr>
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<td>36</td>
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<td>60</td>
<td>72</td>
<td>18</td>
<td>25</td>
<td>30</td>
<td>36</td>
<td>18.3 A</td>
</tr>
<tr>
<td>PC 2x36 T8 TOP sl</td>
<td>23</td>
<td>31</td>
<td>38</td>
<td>44</td>
<td>12</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>43.2 A</td>
</tr>
<tr>
<td>PC 2x58 T8 TOP sl</td>
<td>14</td>
<td>19</td>
<td>23</td>
<td>29</td>
<td>11</td>
<td>17</td>
<td>23</td>
<td>29</td>
<td>50.2 A</td>
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<tr>
<td>PC 3/4x18 T8 TOP lp</td>
<td>23</td>
<td>31</td>
<td>38</td>
<td>47</td>
<td>15</td>
<td>20</td>
<td>26</td>
<td>32</td>
<td>22.7 A</td>
</tr>
</tbody>
</table>

Data sheet 01/20-FO010-13
Subject to change without notice. Information provided without guarantee.
Wiring advice
The lead length is dependant on the capacitance of the cable. For safety reasons, the PC T8 TOP must only be earthed in the case of a safety class 1 luminaire. Earthing is not required for the device to operate. Connection to earth reduces radio interference.

<table>
<thead>
<tr>
<th>Ballast</th>
<th>Terminal</th>
<th>Maximum capacitance allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Cold</td>
<td>Hot</td>
</tr>
<tr>
<td></td>
<td>Cold</td>
<td>Hot</td>
</tr>
<tr>
<td>PC 1x... T8 TOP sl</td>
<td>13, 14</td>
<td>15, 16</td>
</tr>
<tr>
<td>PC 2x... T8 TOP sl</td>
<td>11, 12, 13, 14</td>
<td>15, 16</td>
</tr>
<tr>
<td>PC 3x18 T8 TOP lp</td>
<td>9, 10, 11, 12, 13, 14</td>
<td>15, 16</td>
</tr>
<tr>
<td>PC 4x18 T8 TOP lp</td>
<td>6, 7, 9, 10, 11, 12, 13, 14</td>
<td>15, 16</td>
</tr>
</tbody>
</table>

To avoid the damage of the control gear, the wiring must be protected against short circuits to earth (sharp edged metal parts, metal cable clips, louver, etc.)

Installation instructions
Wiring type and cross section
Solid wire with a cross section of 0.5 – 1.5 mm². Strip 8 – 9 mm of insulation from the cables to ensure perfect operation of terminals.

Release of the wiring
Loosen wire through twisting and pulling or using a Ø 1 mm release tool.

Side fixing feature
Screw M4, screw head diameter 8–10 mm

Defective lamp
If a lamp is defective, the ballast switches off and goes into standby. There is an automatic restart once the lamp has been changed.

RFI
Tridonic ballasts are RFI protected in accordance with EN 55015. To operate the luminaire correctly and to minimise RFI we recommend the following instructions:
- Connection to the lamps of the “hot leads” must be kept as short as possible (marked with *)
- Mains leads should be kept apart from lamp leads (ideally 5–10 cm distance)
- Do not run mains leads adjacent to the electronic ballast
- Twist the lamp leads
- Keep the distance of lamp leads from the metal work as large as possible
- Connect functional earth to the ballast, either over the terminal or over the mounting screw of the ballast
- Mains wiring to be twisted when through wiring
- Keep the mains leads inside the luminaire as short as possible

Insulation and electric strength testing of luminaires
Electronic devices can be damaged by high voltage. This has to be considered during the routine testing of the luminaires in production.

According to IEC 60598-1 Annex Q (informative only) or ENEC 303-Annex A, each luminaire should be submitted to an insulation test with 500 V DC for 1 second. This test voltage should be connected between the interconnected phase and neutral terminals and the earth terminal.

The insulation resistance must be at least 2 MΩ.

As an alternative, IEC 60598-1 Annex Q describes a test of the electrical strength with 1500 V AC (or 1.414 x 1500 V DC). To avoid damage to the electronic devices this test must not be conducted.

Additional information
Additional technical information at www.tridonic.com → Technical Data
Guarantee conditions at www.tridonic.com → Services
Life-time declarations are informative and represent no warranty claim. No warranty if device was opened.

T8 lamp information
<table>
<thead>
<tr>
<th>Wattage</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 W</td>
<td>1500 mm</td>
</tr>
<tr>
<td>36 W</td>
<td>1200 mm</td>
</tr>
<tr>
<td>58 W</td>
<td>1500 mm</td>
</tr>
</tbody>
</table>
FL ballasts
Electronic fixed output

Wiring diagrams

**PC 1x... T8 TOP sl**
- Leads 15, 16 max. 1.0 m (< 100 pF)
- Leads 13, 14 max. 2.0 m (< 200 pF)
For luminaires of protection class I: Earthing via ECG casing (according to IEC 60598)
For luminaires of protection class II: No earthing required

**PC 2x... T8 TOP sl**
- Leads 15, 16 max. 1.0 m (< 100 pF)
- Leads 11, 12, 13, 14 max. 2.0 m (< 200 pF)
For luminaires of protection class I: Earthing via ECG casing (according to IEC 60598)
For luminaires of protection class II: No earthing required

**PC 3x... T8 TOP lp**
- Leads 15, 16 max. 1.0 m (< 100 pF)
- Leads 9, 10, 11, 12, 13, 14 max. 2.0 m (< 200 pF)
For luminaires of protection class I: Earthing via ECG casing (according to IEC 60598)
For luminaires of protection class II: No earthing required

**PC 4x... T8 TOP lp**
- Leads 9, 10, 15, 16 max. 1.0 m (< 100 pF)
- Leads 6, 7, 11, 13, 14 max. 2.0 m (< 200 pF)
For luminaires of protection class I: Earthing via ECG casing (according to IEC 60598)
For luminaires of protection class II: No earthing required