Product description

- For metal halide lamps
- Also for mobile luminaires with connectors
- Flicker-free light
- Colour stability thanks to constant power
- No acoustic resonance
- Safety shutdown if a lamp is faulty or missing
- Automatic shutdown on overheating
- Push-in terminals up to 1.5 mm²
- Casing: polycarbonate V0, black

Technical data

- Mains voltage range: 220 – 240 V
- AC voltage range: 198 – 254 V
- Mains frequency: 50 / 60 Hz
- Max. ignition voltage: 5 kVp
- Operating frequency: 104 Hz
- Type of protection: IP20

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging, carbon</th>
<th>Packaging, pallet</th>
<th>Packaging, pallet 1 (shipping quantity)</th>
<th>Weight per pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For luminaires with 1 lamp</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCI 20 MINI Q211</td>
<td>24166396</td>
<td>40 pc./pcs.</td>
<td>560 pc./pcs.</td>
<td>2,800 pc./pcs.</td>
<td>0.105 kg</td>
</tr>
</tbody>
</table>

Specific technical data

<table>
<thead>
<tr>
<th>Lamp type</th>
<th>Lamp wattage</th>
<th>Lamp type</th>
<th>Article number</th>
<th>Dimensions L x W x H</th>
<th>Lamp power</th>
<th>Circuit power (Ω)</th>
<th>EEI</th>
<th>Efficiency</th>
<th>Current at 50 Hz 230 V</th>
<th>λ at 50 Hz 230 V</th>
<th>Max. cable length to lamp dm</th>
<th>tc point max.</th>
<th>Ambient temperature ta °C</th>
<th>tc/ta for ≥ 50,000 h °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x 20 W</td>
<td>1 x 20 W</td>
<td>PCI 20 MINI Q211</td>
<td>24166396</td>
<td>97.5 x 43 x 30 mm</td>
<td>20 W</td>
<td>22.4 W</td>
<td>A2</td>
<td>&gt; 88 %</td>
<td>0.1 A</td>
<td>0.97</td>
<td>1.5 m / 130 pF</td>
<td>70 °C</td>
<td>-20 °C ... +50 °C</td>
<td>70/50 °C</td>
</tr>
</tbody>
</table>

At ta = 25 °C.
Installation instructions

Wiring type and cross section
Stranded wire or solid wire up to 2.5 mm² may be used for wiring. Strip 7.5 – 8.5 mm of insulation from the cables to ensure perfect operation of the push-in terminals. Use one wire for each terminal connector only.

Note on wiring
The length of the lamp wires is limited by the value of cable capacitance. The maximum of 120 pF would enable connection of approximately 1.5 m of lamp wire.

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.).

In class 1 luminaires it is necessary to earth the ballast and the luminaire via the earth terminal, in class 2 luminaires not.

Radio interference
- Do not cross mains and lamp cables.
- Do not lay mains cables together with lamp cables (ideally they should be 5–10 cm apart).
- Do not lead mains cables too closely along the electronic ballast.
- Twist lamp cables.
- Increase the distance between lamp cables and earthed metal surfaces.
- Keep the mains cable in the luminaire short.
- Parallel runs (x) of mains and lamp cables must be kept as short as possible.

Important advise
When a lamp is changed (at the end of its life), if a lamp is missing or after over-temperature shutdown the mains voltage of the ECG must be disconnected.

Warning – starting voltage up to max. 5 kV!
Not suitable for use with lamps with integral ignitors. A list of released lamps for the safe operation with PCI can be found on www.tridonic.com → Techn. Data → Lamp matrix → Lamp Matrix for HID

Overtemperature shutdown
The units shut down at ΔT approx. ≥ +7°C compared to tc. A mains reset must be carried out so that the units switch on again.

Overload strength
320 Vac / 41 h
280 Vac / 10 h

Harmonic distortion in the mains supply

<table>
<thead>
<tr>
<th>Type</th>
<th>THD at 230 V/50 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 20 MINI Q211</td>
<td>&lt; 10%</td>
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</tbody>
</table>

Ballast lumen factor EN 60929 8.1

<table>
<thead>
<tr>
<th>Type</th>
<th>AC/DC-BLF</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 20 MINI Q211</td>
<td>at U = 198–254 V, 25°C</td>
</tr>
</tbody>
</table>

Standards
EN 55015 (radio interference)
EN 61000-3-2 (mains harmonics)
EN 61347-2-12
EN 61547 (interference immunity)
EN 61167
C-tick EMC

Glow-wire test according to EN 60598-1
850 °C passed

Loading of automatic circuit breakers

<table>
<thead>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Ø</td>
<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>
<td></td>
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<tr>
<td>PCI 20 MINI Q221</td>
<td>26</td>
<td>36</td>
<td>48</td>
<td>60</td>
<td>13</td>
<td>18</td>
<td>24</td>
<td>30</td>
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