Product description

• For metal halide lamps
• Also for mobile luminaires with connectors
• Pulse packets for increased ignition energy (pulseCONTROL technology)
• With patented circuit elements
• Flicker-free light
• Colour stability thanks to constant power
• Guaranteed long life
• No acoustic resonance
• Two independent lamp output circuits
• Safety shutdown of an affected lamp circuit if a lamp is missing or faulty
• Greatly reduced reignition time
• Hardly any EMC interference in the ignition phase
• Automatic shutdown on overheating
• Lower section of casing made of steel
• Upper section of casing made of Makrolon, VO material, black
• Screw terminals: ≤ 1.5 mm² for stranded wire, ≤ 2.5 mm² for solid wire

Technical data

Mains voltage range 220 – 240 V
AC voltage range 198 – 254 V
DC voltage range 153 – 320 V
Mains frequency 50 Hz
Max. ignition voltage 5 kVp
Operating frequency 145 Hz
Type of protection IP20

Standards, page 2
Wiring diagrams and installation examples, page 2

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging, carton</th>
<th>Packaging, pallet</th>
<th>Weight per pc</th>
</tr>
</thead>
<tbody>
<tr>
<td>For luminaires with 2 lamps</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PCI 2/35 B011</td>
<td>86458207</td>
<td>15 pc(s).</td>
<td>900 pc(s).</td>
<td>0.310 kg</td>
</tr>
<tr>
<td>PCI 2/70 B011</td>
<td>86458209</td>
<td>15 pc(s).</td>
<td>600 pc(s).</td>
<td>0.398 kg</td>
</tr>
</tbody>
</table>

Specific technical data

For luminaires with 2 lamps

<table>
<thead>
<tr>
<th>Lamp wattage</th>
<th>Lamp type</th>
<th>Type</th>
<th>Article number</th>
<th>Dimensions L x W x H</th>
<th>Lamp power</th>
<th>Circuit power</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</th>
<th>tc point max.</th>
<th>Ambient temperature ta</th>
<th>tc/ta for ≥ 50,000 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 x 35 W</td>
<td>H</td>
<td>PCI 2/35 B011</td>
<td>86458207</td>
<td>140 x 75 x 31 mm</td>
<td>2 x 39 W 87 W</td>
<td>A2</td>
<td>&gt; 89 %</td>
<td>0.38 A</td>
<td>0.97</td>
<td>per 1.5 m / 120 pf 65 °C 65 °C 65/50 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 x 70 W</td>
<td>H</td>
<td>PCI 2/70 B011</td>
<td>86458209</td>
<td>170 x 75 x 31 mm</td>
<td>2 x 72 W 158 W</td>
<td>A2</td>
<td>&gt; 91 %</td>
<td>0.70 A</td>
<td>0.97</td>
<td>per 1.5 m / 120 pf 70 °C 70 °C 70/40 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

At ta = 25 °C.
Installation instructions

Wiring type and cross section
Stranded wire with end ferrule with a cross section of 1.5 mm² or solid wire up to 2.5 mm² may be used for wiring. Strip 6 mm of insulation from the cables to ensure perfect operation of the screw terminals.

Mounting recommendation
To ensure optimum heat removal the ECG should be mounted on a metal plate (luminaire body). No insulators between the ECG and the the cooling surface (air, adhesive tape, etc.). Finally important remains the temperature measurement.

If several ballasts are installed in masts, boxes, etc., measures must be taken to avoid overheating of individual components.

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 overtemperature 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.

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 metres of lamp wire for each lamp.

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

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.).

Harmonic distortion in the mains supply

<table>
<thead>
<tr>
<th>Ballast Type</th>
<th>THD</th>
<th>3</th>
<th>5</th>
<th>7</th>
<th>9</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 2/35</td>
<td>7.5</td>
<td>6.0</td>
<td>3.5</td>
<td>3.5</td>
<td>3.5</td>
<td>1.5</td>
</tr>
<tr>
<td>PCI 2/70</td>
<td>7.5</td>
<td>4.5</td>
<td>5.0</td>
<td>2.5</td>
<td>2.5</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Ballast lumen factor
EN 60929 8.1

<table>
<thead>
<tr>
<th>Type</th>
<th>AC/DC BLF at U = 198–254 V, 25 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCI 2/35</td>
<td>1.0</td>
</tr>
<tr>
<td>PCI 2/70</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Safety switch off
End of life of the lamps
At the end of their useful life, lamps often cycle on/off. The PCI ballast recognises this condition and switches off the lamp, after three complete on/off cycles and whilst the supply has been unswitched. Complete lamp switch off enables easy identification of a defective lamp in the application. After a change of the faulty lamp and an interruption of the mains supply (lamps reset) the ballast will strike the lamp. When there is no lamp in circuit or a defective lamp is connected to the ballast, the ballast will switch off after approx. 25 minutes (3.5 minutes of ignition time).

Overtemperature shutdown
The units shut down at ΔT approx. +10 °C compared with t°C. A mains reset must be carried out so that the units switch on again.

Overload strength
320 V~/1 h

<table>
<thead>
<tr>
<th>Ballast 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>PCI 2/35</td>
<td>14</td>
<td>25</td>
<td>36</td>
<td>42</td>
<td>8</td>
<td>14</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>PCI 2/70</td>
<td>7</td>
<td>14</td>
<td>20</td>
<td>20</td>
<td>4</td>
<td>6</td>
<td>7</td>
<td>7</td>
</tr>
</tbody>
</table>

Data sheet 10/14–498-9
Subject to change without notice.