Pendant Light Fitting Series PVM LED
(for harsh industrial applications)

The powerful pendant light fittings in LED technique
PVM 3/5/7/9/11/13/17/21/25 L
The energy-saving PVM light fittings with LED technology are ideal for all general lighting applications in industrial areas with harsh environmental conditions as vibrations, dust, moisture, corrosive atmospheres and extreme temperatures.

Replacement of conventional light fittings from 70 W up to 1000 W
With the integrated high-power LED technology and a power consumption from 29 W up to 232 W these lights can be used to replace comparable conventional light sources with an equivalent capacity of up to 1000 W.

LED technique for harsh operation conditions
Due to the particularly solid construction of the housing and the vibration resistance of the LED module, the PVM is resistant to impact, shock and vibration. As a result, it represents the ideal lighting concept for use in areas with difficult environmental conditions.

Wide temperature range for extreme conditions
Thanks to temperature range from -40 °C up to +65 °C the light fittings can be used in many applications.

Best lighting technology for numerous applications
PVM light fittings are available in 3 different types:
• Type V has a symmetric light distribution and is optimized for general area illumination.
• Type III has an asymmetrical light distribution and is, therefore, suitable for near-edge mounting (wall mounting) for surface illumination
• Type I has a narrow light distribution and is ideal for lighting roads and pathways.

Features
• High efficient up to 124 lm/W
• Multiple drivers
• High efficient heat sink management for a lifetime up to 60,000 h @ 65 °C
• Wide temperature range from -40 °C up to +65 °C (depending on model)
• High degree of protection IP66 for harsh environment
• Dimmable by control input 0-10 V
### Ordering details

**PVM LED Lamp module with LEDs (without top mounting module, please order separately)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Lamp / Illuminant</th>
<th>Rated luminous flux of the luminaire</th>
<th>Weight</th>
<th>Cable gland / thread</th>
<th>Screw plug type</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVM 3L LED</td>
<td>LED System 29 W type V</td>
<td>3,515 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>–</td>
<td>1 2400 400</td>
</tr>
<tr>
<td>PVM 5L LED</td>
<td>LED System 43 W type V</td>
<td>5,335 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>–</td>
<td>1 2407 746</td>
</tr>
<tr>
<td>PVM 7L LED</td>
<td>LED System 55 W type V</td>
<td>7,260 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>–</td>
<td>1 2407 745</td>
</tr>
<tr>
<td>PVM 9L LED</td>
<td>LED System 85 W type V</td>
<td>9,226 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>–</td>
<td>1 2409 889</td>
</tr>
<tr>
<td>PVM 11L LED</td>
<td>LED System 113 W type V</td>
<td>11,440 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>–</td>
<td>1 2408 233</td>
</tr>
<tr>
<td>PVM 13L LED</td>
<td>LED System 130 W type V</td>
<td>13,266 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2429 488</td>
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<tr>
<td>PVM 17L LED</td>
<td>LED System 168 W type V</td>
<td>18,793 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2430 349</td>
</tr>
<tr>
<td>PVM 21L LED</td>
<td>LED System 196 W type V</td>
<td>22,110 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 452</td>
</tr>
<tr>
<td>PVM 25L LED</td>
<td>LED System 232 W type V</td>
<td>26,531 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 455</td>
</tr>
<tr>
<td>PVM 3L LED</td>
<td>LED System 29 W type I</td>
<td>3,360 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 505</td>
</tr>
<tr>
<td>PVM 5L LED</td>
<td>LED System 43 W type I</td>
<td>5,045 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 517</td>
</tr>
<tr>
<td>PVM 7L LED</td>
<td>LED System 55 W type I</td>
<td>6,844 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 526</td>
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<tr>
<td>PVM 9L LED</td>
<td>LED System 85 W type I</td>
<td>8,623 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 534</td>
</tr>
<tr>
<td>PVM 11L LED</td>
<td>LED System 113 W type I</td>
<td>10,730 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 542</td>
</tr>
<tr>
<td>PVM 13L LED</td>
<td>LED System 130 W type I</td>
<td>12,842 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2430 347</td>
</tr>
<tr>
<td>PVM 17L LED</td>
<td>LED System 168 W type I</td>
<td>18,195 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2430 450</td>
</tr>
<tr>
<td>PVM 21L LED</td>
<td>LED System 196 W type I</td>
<td>21,404 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 453</td>
</tr>
<tr>
<td>PVM 25L LED</td>
<td>LED System 232 W type I</td>
<td>25,685 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 456</td>
</tr>
<tr>
<td>PVM 3L LED</td>
<td>LED System 29 W type III</td>
<td>3,309 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 508</td>
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<tr>
<td>PVM 5L LED</td>
<td>LED System 43 W type III</td>
<td>4,468 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 518</td>
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<tr>
<td>PVM 7L LED</td>
<td>LED System 55 W type III</td>
<td>6,741 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2407 564</td>
</tr>
<tr>
<td>PVM 9L LED</td>
<td>LED System 85 W type III</td>
<td>8,618 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 535</td>
</tr>
<tr>
<td>PVM 11L LED</td>
<td>LED System 113 W type III</td>
<td>10,660 lm</td>
<td>8.1 kg</td>
<td>–</td>
<td>1</td>
<td>1 2414 543</td>
</tr>
<tr>
<td>PVM 13L LED</td>
<td>LED System 130 W type III</td>
<td>12,493 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2430 348</td>
</tr>
<tr>
<td>PVM 17L LED</td>
<td>LED System 168 W type III</td>
<td>17,699 lm</td>
<td>16.3 kg</td>
<td>–</td>
<td>2</td>
<td>1 2430 451</td>
</tr>
<tr>
<td>PVM 21L LED</td>
<td>LED System 196 W type III</td>
<td>20,822 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 454</td>
</tr>
<tr>
<td>PVM 25L LED</td>
<td>LED System 232 W type III</td>
<td>24,987 lm</td>
<td>20.0 kg</td>
<td>–</td>
<td>3</td>
<td>1 2430 457</td>
</tr>
</tbody>
</table>

**PVM LED top mounting module, (without lamp module, please order separately)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Weight</th>
<th>Thread Size</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JM5</td>
<td>Top mounting module for 11/2&quot; pole mounting, 25°</td>
<td>1.6 kg</td>
<td>1 x 3/4”</td>
<td>22 250</td>
</tr>
<tr>
<td>PM5</td>
<td>Top mounting module for 11/2&quot; pole mounting, straight</td>
<td>2.0 kg</td>
<td>1 x 3/4”</td>
<td>00 080</td>
</tr>
<tr>
<td>CM20</td>
<td>Top mounting module for M20 ceiling mounting</td>
<td>1.3 kg</td>
<td>4 x M20</td>
<td>1 1843 088</td>
</tr>
<tr>
<td>TWM20</td>
<td>Top mounting module for M20 wall mounting</td>
<td>2.0 kg</td>
<td>4 x M20</td>
<td>1 1832 237</td>
</tr>
<tr>
<td>S812</td>
<td>mounting bracket (can only be used with top mounting module CM20)</td>
<td>1.0 kg</td>
<td>–</td>
<td>1 2268 927</td>
</tr>
</tbody>
</table>

**JGA (cable adaptor 1½ for pole mounting)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
<th>Weight</th>
<th>Thread Size</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>JGA520</td>
<td>Adapter 1½ for top mounting module</td>
<td>0.45 kg</td>
<td>1x M20</td>
<td>11826774</td>
</tr>
</tbody>
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1) only for PVM 3L-11L

Scope of delivery without fixing accessories, if not stated otherwise. Metal cable glands see main catalogue part 2: 2.3.12 ff

Further mounting material on request.
Polar curve / Dimension drawing
PVM LED for harsh industrial applications

Polar curve PVM LED type V

Polar curve PVM LED type III

Dimension drawings PVM LED
with top mounting module JM5

with top mounting module PM5

with top mounting module CM20

with top mounting module TWM20

Lamp module

Size 1

Size 2

Size 3

Mounting bracket S812

Cable adaptor for pole mounting JGA5520

Dimensions in mm
## Technical data

### PVM 3L - 11L LED
- **Permissible ambient temperature**: -40 °C up to +65 °C
- **Lifetime fixtures**:
  - L80 B10 - 200,000 h at \( t_a = +25 °C \)
  - L80 B10 - 60,000 h at \( t_a = +65 °C \)
- **Rated voltage**: 100 - 277 V AC, 108 - 250 V DC
- **Frequency**: 50 - 60 Hz
- **Power factor cos \( \phi \)**: >0.9
- **Circuit**: electronic driver
- **Protection class**: I
- **Lamp / Illuminant**: LED system, scope of delivery
- **Light colour/CRI**: 5000 K / Ra 70; 3000 K / Ra 80 on request
- **Rated luminous flux of the luminaire**: 81 W
- **Dimensions (L x W x H)**: 280 x 295 x 230 mm
- **Terminals**: L, N, PE, max. 1 x 2.5 mm²
- **Enclosure colour**: grey/black
- **Enclosure material**: copper-free aluminium with epoxy-powder coating
- **Weight**: 8.1 kg
- **Degree of protection accd. to EN 60529**: IP66
- **Protective cover / protective bowl**: heat- and impact resistant glass

### PVM 13L - 17L LED
- **Permissible ambient temperature**: -40 °C up to +55 °C
- **Lifetime fixtures**:
  - L80 B10 - 170,000 h at \( t_a = +25 °C \)
  - L80 B10 - 60,000 h at \( t_a = +55 °C \)
- **Rated voltage**: 100 - 277 V AC, 108 - 250 V DC
- **Frequency**: 50 - 60 Hz
- **Power factor cos \( \phi \)**: >0.9
- **Circuit**: electronic driver
- **Protection class**: I
- **Lamp / Illuminant**: LED system, scope of delivery
- **Light colour/CRI**: 5000 K / Ra 70; 3000 K / Ra 80 on request
- **Rated luminous flux of the luminaire**: 81 W
- **Dimensions (L x W x H)**: 381 x 381 x 197 mm
- **Terminals**: L, N, PE, max. 1 x 2.5 mm²
- **Enclosure colour**: grey/black
- **Enclosure material**: copper-free aluminium with epoxy-powder coating
- **Weight**: 16.3 kg
- **Degree of protection accd. to EN 60529**: IP66
- **Protective cover / protective bowl**: heat- and impact resistant glass

### PVM 20L - 25L LED
- **Permissible ambient temperature**: -40 °C up to +55 °C
- **Lifetime fixtures**:
  - L80 B10 - 170,000 h at \( t_a = +25 °C \)
  - L80 B10 - 60,000 h at \( t_a = +55 °C \)
- **Rated voltage**: 100 - 277 V AC, 108 - 250 V DC
- **Frequency**: 50 - 60 Hz
- **Power factor cos \( \phi \)**: >0.9
- **Circuit**: electronic driver
- **Protection class**: I
- **Lamp / Illuminant**: LED system, scope of delivery
- **Light colour/CRI**: 5000 K / Ra 70; 3000 K / Ra 80 on request
- **Rated luminous flux of the luminaire**: 81 W
- **Dimensions (L x W x H)**: 381 x 381 x 274 mm
- **Terminals**: L, N, PE, max. 1 x 2.5 mm²
- **Enclosure colour**: grey/black
- **Enclosure material**: copper-free aluminium with epoxy-powder coating
- **Weight**: 20.0 kg
- **Degree of protection accd. to EN 60529**: IP66
- **Protective cover / protective bowl**: heat- and impact resistant glass

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1) See Ordering details on page 5
2) Opaque cover and version in polycarbonate on request