LED Powerline IC

Max. irradiation intensity: up to **20.000 mW/cm²**

Wavelength: 365, 385, 395 and 405 nm

Water cooled

**System-Features**
- High irradiation power
- Very small dimensions / different lengths
- Low weight
- Different wavelengths available

**Advantages**
- Low temperature load
- Appropriate for clean rooms
- No warm-up phase
LED Powerline IC

The **LED Powerline IC** is a high-performance array for intermediate curing (pinning) and final curing for printing applications. Other applications are the curing of varnishes or UV-reactive adhesives and potting.

The typical **LED service life is more than 20,000 hours***. The LEDs can be switched-on and -off as often as required, without any warm-up or cooling phase.

The **LED Powerline IC** is available in wavelengths of **365/385/395/405 nm +/- 10 nm**. This variety allows to adjust the wavelength to the application in question.

With its low weight and small dimension the **LED Powerline IC** can be integrated in the smallest interspaces. The water-cooled unit is appropriate for being used in a clean room.

**Special features**

- **Integrated controller (IC)**
- Driving and monitoring of a LED segment up to a max. electric power of 400 W
- Monitoring of LED segments regarding short-circuit, interruption and excess temperature
- Temperature compensation of LED power for homogeneous irradiation results
- Registration of operating hours of LED- segments
- Analogue dimming of the segments via a 0-10 V-signal
- Digital PLC-interface (Emergency-stop, LED-on, LED-failure, temperature warning)
- All modules BUS-controlled via RS485

**Technical data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED service life</td>
<td>&gt; 20,000 hours *</td>
</tr>
<tr>
<td>Irradiated area / output window:</td>
<td>80 x 10 mm different lengths in 40 mm steps</td>
</tr>
<tr>
<td>dimensions in mm:</td>
<td>90 x 34 x 145,5 max. length application dependent</td>
</tr>
<tr>
<td>wavelengths in nm</td>
<td>365 385 395 405</td>
</tr>
<tr>
<td>typical intensity in mW/cm²**</td>
<td>12000 16000 20000 20000</td>
</tr>
</tbody>
</table>

**Cooling**

External water cooling

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