

## LED Powerline IC

Max. irradiation intensity: up to 20.000 mW/cm<sup>2</sup>

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 pottings.

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



### ProcessFlowControl

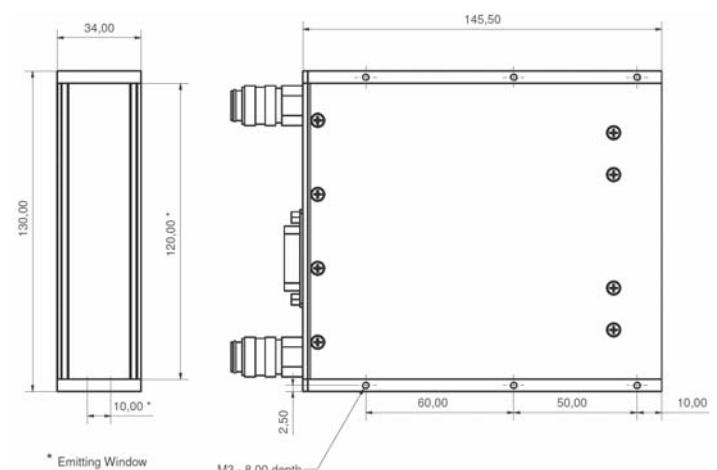
It is possible to program complete process sequences, e.g. different exposure series including holding times, on the PC, which can be transmitted on the LED controller later on. Due to the ProcessFlowControl even complex irradiation functions without additional SPS can be realized.

### Technical data

LED service life	> 20.000 hours *
Irradiated area / output window:	80 x 10 mm different lengths in 40 mm steps
dimensions in mm:	90 x 34 x 145,5 max. length application dependent
wavelengths in nm	365 385 395 405
typical intensity in mW/cm <sup>2</sup> **	12000 16000 20000 20000
Cooling	External water cooling

\* typical time for usage under standard environment conditions

\*\* measured with Höhle LED sensors for UV meter



Tangent Industries Inc., 142 Industrial Lane, Torrington CT 06790, USA  
Phone: (001) 860-738-7449, Fax: (001) 860-738-2961. [www.tangentindinc.com](http://www.tangentindinc.com)

Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data. © Copyright Dr. Höhle AG. Updated 05/14.