

PLD M 280 W-40 284 - LED machine light



2702491

<https://www.phoenixcontact.com/us/products/2702491>

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 40 °, length: 284 mm, degree of protection: IP67/IPX9, resistant to coolants and lubricants

Product description

This LED machine light is designed to provide illumination inside or on machinery. You can use the light in harsh environments. This is possible thanks to the following properties: - High type of protection - Resistance to common cooling agents and lubricants - Resistance to vibrations and shock - Safety glass The IP67/IPX9 protection allows use in machines that undergo high-pressure cleaning.

Your advantages

- Space saving, thanks to the low height
- Ready to connect by means of punched-on 3 m supply line
- Focused illumination, thanks to 40° emission angle
- IP67 protection and resistance to cooling agents and lubricants enables use in machine tools
- IP69 protection enables use even under the most demanding requirements in terms of the degree of protection
- Safety glass enables use even in environments with potential mechanical strain
- ETL approval permits use on the North American market
- Particularly economical thanks to energy-efficient LED technology and an LED service life of at least 50000 h

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 2702491 |
| Packing unit | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | DR08 |
| Product key | DRL222 |
| GTIN | 4055626216850 |
| Weight per piece (including packing) | 1,500 g |
| Weight per piece (excluding packing) | 1,000 g |
| Customs tariff number | 94054239 |
| Country of origin | DE |

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Technical data

Product properties

| | |
|--------------------|--------------------------------------|
| Product type | Machine light |
| Application | Machine |
| | Machine tool |
| Mounting position | any |
| Special properties | resistant to coolants and lubricants |

Electrical properties

Supply: Module electronics


| | |
|----------------------|--|
| Connection method | open cable end |
| Cable length | approx. 3 m |
| Supply voltage | 24 V DC |
| Supply voltage range | 22 V DC ... 26 V DC |
| Current consumption | typ. 0.54 A (at 24 V DC) |
| Power consumption | approx. 13 W (at 24 V DC) |
| Protective circuit | Surge protection; Suppressor diode, 40 V DC |
| | Reverse polarity protection; Polarity protection diode |

Signaling

Light properties

| | |
|-------------------------|--|
| Source of light type | LED |
| Number of LEDs | 6 |
| Color temperature | 6500 K \pm 10 % |
| Color rendering index | 65 |
| Luminous flux | approx. 460 lm (Net luminous flux) |
| Luminous efficacy | approx. 35 lm/W |
| Illumination | max. 869 lx (Distance of 1 m) |
| | min. 49 lx (Distance of 1 m over 1 m ² area) |
| Average illumination | 347 lx (Distance of 1 m over 1 m ² area) |
| Emission angle | 40 ° |
| Ordinance | Delegated Regulation (EU) 2019/2015 |
| Energy efficiency class | G (1 light source) |
| Note | This product contains an energy efficiency class G light source. |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 74 mm |

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| | |
|--------|--------|
| Height | 20 mm |
| Length | 284 mm |

Material specifications

| | |
|----------|--|
| Color | aluminum color |
| Material | Anodized aluminum (Light housing) |
| | Single-pane safety glass (ESG, thermally toughened float glass) (Pane) |

Environmental and real-life conditions

Ambient conditions

| | |
|--|-----------------------|
| Ambient temperature (operation) | 0 °C ... 40 °C |
| Degree of protection | IP67/IPX9 |
| Air pressure (operation) | 69 kPa ... 102 kPa |
| Air pressure (storage/transport) | 69 kPa ... 102 kPa |
| Ambient temperature (storage/transport) | -20 °C ... 50 °C |
| Permissible humidity (operation) | 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 95 % (non-condensing) |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|-------------------|----------------|
| Mounting type | Screw mounting |
| Mounting position | any |

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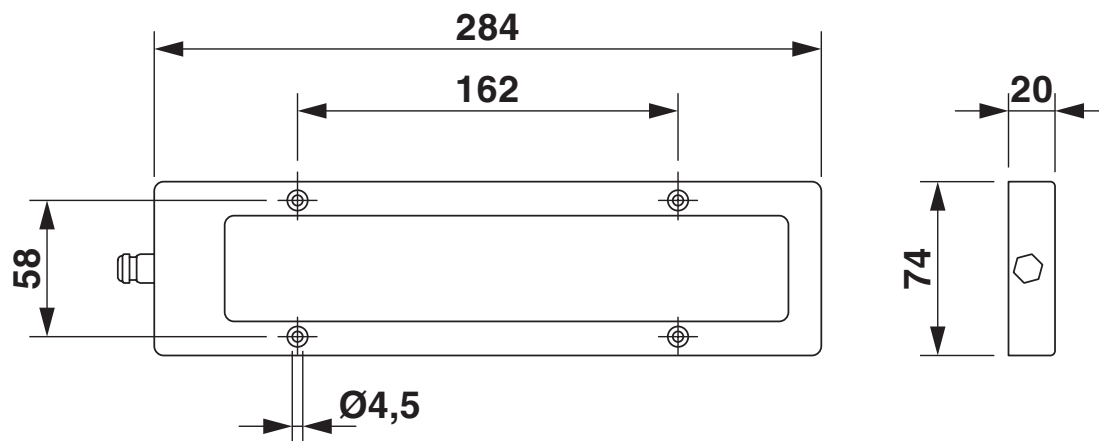


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Drawings

Dimensional drawing



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Classifications

ECLASS

ECLASS-13.0

27110345

UNSPSC

UNSPSC 21.0

32151500

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Environmental product compliance

EU RoHS

| | |
|---|---------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(b)-II |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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