

# 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

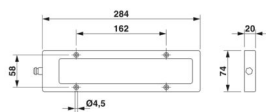
Connection method	open cable end
Cable length	approx. 3 m
Supply voltage	24 V DC
Supply voltage range	22 V DC ... 26 V DC
Current consumption	typ. 0.54 A (at 24 V DC)
Power consumption	approx. 13 W (at 24 V DC)
Protective circuit	Surge protection; Suppressor diode, 40 V DC Reverse polarity protection; 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 <sup>2</sup> area)
Average illumination	347 lx (Distance of 1 m over 1 m <sup>2</sup> 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)
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## Mounting

Mounting type	Screw mounting
Mounting position	any

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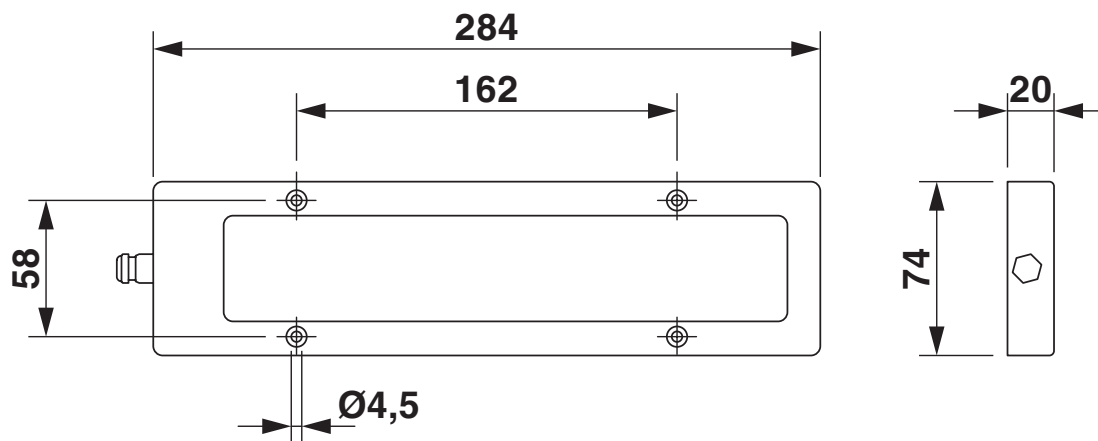


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## Drawings

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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