

LED machine light - PLD M 280 W-40 284 - 2702491

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LED machine light, 24 V DC, emission angle 40 °, color temperature 6500 K, length 284 mm, Light housing: Anodized aluminum, Pane: Single-pane safety glass (ESG, thermally toughened float glass), 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 50 000 h



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 216850
GTIN	4055626216850

Technical data

Dimensions

Width	74 mm
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Technical data

Dimensions

Height	20 mm
Length	284 mm

Ambient conditions

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

General

Color	aluminum color
Net weight	1000 g
Mounting type	Screw mounting
Mounting position	any

Power supply for 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)
Type of protection	Surge protection
	Reverse polarity protection

Light properties

Source of light type	LED
Number of LEDs	6
Service life, lighting appliance	50,000 h (L70)
Light color	daylight white
Color temperature / wavelength	6500 K $\pm$ 10 %
Color rendering index	65
Luminous flux	approx. 460 lm (Net luminous flux)
Illumination	max. 869 lx (Distance of 1 m)
Average illumination	347 lx (Distance of 1 m over 1 m ² area)
Emission angle	40 °
Energy efficiency class	Delegated Regulation (EU) 2019/2015
	This product contains an energy efficiency class G light source.
	G (1 light source)

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Technical data

Standards and Regulations

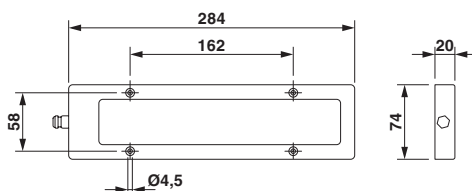
Immunity to ESD	Noise immunity test in accordance with EN 61547/IEC 61547 Electrostatic discharge (ESD) EN 61000-4-2/IEC 61000-4-2 Criterion B, 4 kV contact discharge, 8 kV air discharge
Immunity to EF	Noise immunity test in accordance with EN 61547/IEC 61547 Electromagnetic fields EN 61000-4-3/IEC 61000-4-3 Criterion A, field strength: 3 V/m
Immunity to burst	Noise immunity test in accordance with EN 61547/IEC 61547 Fast transients (burst) EN 61000-4-4/IEC 61000-4-4 Criterion B, ± 0.5 kV
Immunity to conducted interference	Noise immunity test in accordance with EN 61547/IEC 61547 Conducted interference EN 61000-4-6/IEC 61000-4-6 Criterion A, test voltage 3 V
Interference emission	Noise emission test according to EN 61000-6-3/IEC 61000-6-3 Radio interference properties EN 55015 Class B
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

Drawings

Dimensional drawing



Classifications

eCl@ss

eCl@ss 10.0.1	27110345
eCl@ss 11.0	27110345
eCl@ss 4.0	27110800
eCl@ss 4.1	27110800
eCl@ss 5.0	27119100
eCl@ss 5.1	27119100
eCl@ss 7.0	27119010
eCl@ss 9.0	27110345

ETIM

ETIM 3.0	EC000348
ETIM 4.0	EC000348

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Classifications

ETIM

ETIM 6.0	EC000302
ETIM 7.0	EC000348

UNSPSC

UNSPSC 6.01	39111510
UNSPSC 7.0901	39111510
UNSPSC 11	39111510
UNSPSC 12.01	39111510
UNSPSC 13.2	39101601
UNSPSC 18.0	39101601
UNSPSC 19.0	39101601
UNSPSC 20.0	39101601
UNSPSC 21.0	32151500

Approvals

Approvals

Approvals

ETLus / cETL / EAC / cETLus

Ex Approvals

Approval details

ETLus		http://www.intertek.com	LV-Lighting-Systems
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cETL		http://www.intertek.com	Luminaires
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EAC			TR_TS_D_12879-22
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cETLus			
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