

PLD M 260 W-75/95 1070/D70 - LED machine light



2702489

<https://www.phoenixcontact.com/us/products/2702489>

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 75 °/95 °, length: 1070 mm, diameter: 70 mm, degree of protection: IP67, can be swiveled, 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 - 4 mm-thick safety glass The 70 mm diameter enables easy replacement of conventional tube lights. Mounting is by means of holders or brackets (neither of which are supplied as standard) in which the light can swivel and the lighting can therefore be optimally aligned.

Your advantages

- Easy mechanical replacement of traditional tube lights (retrofit), thanks to 70 mm diameter
- Plug-in supply line enables free choice of the cable length as well as quick and easy installation
- Focused illumination, thanks to swivel action
- IP67 protection and resistance to cooling agents and lubricants enables use in machine tools
- Can be used at high temperatures and can be subjected to strong vibrations and shocks
- 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 60,000 h

Commercial data

Item number	2702489
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR08
Product key	DRL222
Catalog page	Page 507 (C-6-2019)
GTIN	4055626216829
Weight per piece (including packing)	4,300 g
Weight per piece (excluding packing)	3,800 g
Customs tariff number	94054239
Country of origin	DE

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Technical data

Notes

General	The PLD M-ME MC/D70 mounting holder (Item No. 2702493) or the PLD M-ME MB/D70 mounting bracket (Item No. 2702494) is required in order to mount the light.
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Product properties

Product type	Machine light
Application	Machine tool
Mounting position	any
Special properties	can be swiveled with mounting accessories resistant to coolants and lubricants

Electrical properties

Supply: Module electronics

Connection method	M12 connector (A-coded)
Number of positions	4
Permissible conductor cross section	min. 0.34 mm ²
Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC
Current consumption	typ. 1.75 A (at 24 V DC)
Power consumption	approx. 42 W (at 24 V DC)
Protective circuit	Surge protection; Varistor and suppressor diode, 36 V DC Reverse polarity protection; Polarity protection diode

Connection data

Connection method	M12 connector (A-coded)
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Signaling

Light properties

Source of light type	LED
Number of LEDs	84
Service life, lighting appliance	60000 h (L70)
Color temperature	5000 K ±8 %
Color rendering index	85
Luminous flux	approx. 3200 lm (Net luminous flux)
Luminous efficacy	approx. 76 lm/W
Illumination	max. 1391 lx (Distance of 1 m) min. 703 lx (Distance of 1 m over 1 m ² area)
Average illumination	1089 lx (Distance of 1 m over 1 m ² area)
Emission angle	75 ° (C0-C180) 95 ° (C90-C270)

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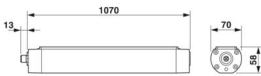


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Ordinance	Delegated Regulation (EU) 2019/2015
Energy efficiency class	D (1 light source)
	E (2 light sources)
Note	This product contains an energy efficiency class D light source.
	This product contains energy efficiency class E light sources.

Dimensions

Dimensional drawing	
Width	70 mm
Height	58 mm
Length	1070 mm
Diameter	70 mm
Note on dimensions	Length without M12 flush-type connector

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 ... 45 °C
Degree of protection	IP67
Air pressure (operation)	69 kPa ... 102 kPa
Air pressure (storage/transport)	69 kPa ... 102 kPa
Ambient temperature (storage/transport)	-20 °C ... 75 °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
Assembly instructions	Mounting with mounting holders or mounting brackets, please observe the notes in the package slip.
Mounting position	any

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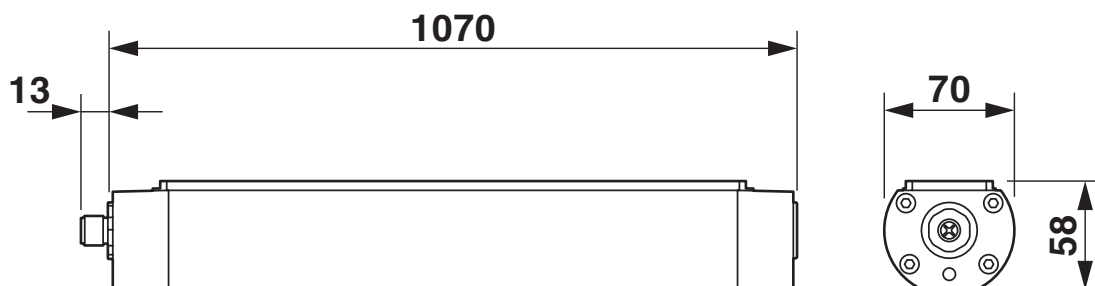
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Drawings

Dimensional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702489>



ETLus

Approval ID: LV-Lighting-Systems



cETL

Approval ID: Luminaires



EAC

Approval ID: TR_TS_D_12879-22

cETLus

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Classifications

ECLASS

ECLASS-11.0	27110345
ECLASS-12.0	27110345
ECLASS-13.0	27110345

ETIM

ETIM 9.0	EC000348
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UNSPSC

UNSPSC 21.0	32151500
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a)-I, 6(c), 7(a)

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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Mandatory accessories

PLD M-ME MC/D70 - Mounting holder

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Mounting holder, for machine lights PLD M 260 .../D70, Swiveling range $\pm 30^\circ$

PLD M-ME MB/D70 - Mounting bracket

2702494

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Mounting bracket, for machine lights PLD M 260 .../D70, Swiveling range $\pm 65^\circ$

Accessories

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SAC-4P- 1,5-PUR/M12FS - Sensor/actuator cable

1668108

<https://www.phoenixcontact.com/us/products/1668108>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 1.5 m

SAC-4P- 3,0-PUR/M12FS - Sensor/actuator cable

1668111

<https://www.phoenixcontact.com/us/products/1668111>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 3 m

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SAC-4P- 5,0-PUR/M12FS - Sensor/actuator cable

1668124

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M12, coding: A, cable length: 5 m

SAC-4P- 1,5-PUR/M12FR - Sensor/actuator cable

1668221

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 1.5 m

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SAC-4P- 3,0-PUR/M12FR - Sensor/actuator cable

1668234

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 3 m

SAC-4P- 5,0-PUR/M12FR - Sensor/actuator cable

1668247

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Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 5 m

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