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

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 60000 h

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	2702489
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DRL222

Product key	DRL222
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

Technical data

Notes

Order information:	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.

Note on application

Note on application	Only for industrial use

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 mm²
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

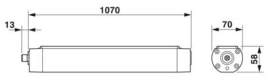
Signaling

Light properties

Source of light type	LED
Number of LEDs	84
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 m² area)
Average illumination	1089 lx (Distance of 1 m over 1 m² area)
Emission angle	75 ° (C0-C180)

	95 ° (C90-C270)
Ordinance	Delegated Regulation (EU) 2019/2015
Energy efficiency class	E (3 light sources)
Note	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 (Housing)	aluminum color
	black (RAL 9005)
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)

Mechanical test

Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6	4g
Shock in accordance with EN 60068-2-27/IEC 60068-2-27	50g

Energy labeling

Ordinance	Delegated Regulation (EU) 2019/2015
Note (EPREL)	The EPREL entry can be searched for with the registration number (https://eprel.ec.europa.eu/screen/home)
	The EPREL entry can be searched for with the model ID (https://eprel.ec.europa.eu/screen/product/lightsources)

Energy labeling (Light source 1)

Registration number	1074648

Model ID	562838
Energy efficiency class	E
Number of light sources	2

Energy labeling (Light source 2)

Registration number	1074886
Model ID	552978
Energy efficiency class	E
Number of light sources	1

Standards and regulations

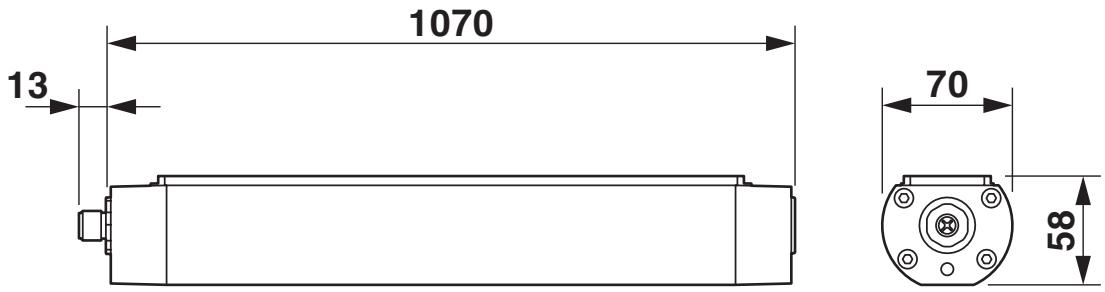
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Screw mounting (See necessary accessories for mounting accessories)
Mounting position	any

Drawings

Dimensional drawing



Approvals

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

ETLus
Approval ID: LV-Lighting-Systems

cETL
Approval ID: Luminaires

EAC
Approval ID: TR_TS_D_12879-22

Classifications

ECLASS

ECLASS-13.0	27110345
ECLASS-15.0	27110345

ETIM

ETIM 10.0	EC000348

UNSPSC

UNSPSC 21.0	32151500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(a), 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)
SCIP	d2ddfa3c-2740-4c1f-be70-8f18899b6354

EF3.1 Climate Change

CO2e kg	47.467 kg CO2e

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