PLD M 260 W-85/95 540/D40/SC - LED machine light

2702935

https://www.phoenixcontact.com/us/products/2702935

PHŒNIX CONTACT

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 85 °/95 °, length: 540 mm, diameter: 40 mm, degree of protection: IP67, can be swiveled, resistant to coolants and lubricants, can be switched in series

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 small diameter of just 40 mm enables mounting even where space is at a premium. 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. To reduce the cabling effort for longer machines, the lights can be switched in series.

Your advantages

• Space saving, thanks to the small 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

• Minimal wiring effort, thanks to series connection

• 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	2702935
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR08
Product key	DRL222
Catalog page	Page 505 (C-6-2019)
GTIN	4055626443782
Weight per piece (including packing)	1,000 g
Weight per piece (excluding packing)	1,028 g
Customs tariff number	94054239
Country of origin	DE

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Technical data

Notes

Order information:	The PLD M-ME MC/D40 mounting holder (Item No. 2702491) or the PLD M-ME MB/D40 mounting bracket (Item No. 2702527) is required in order to mount the light.

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
	can be switched in series

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	20 V DC ... 28 V DC
Current consumption	typ. 0.67 A (at 24 V DC)
Power consumption	approx. 16 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	42
Service life, lighting appliance	60000 h (L70)
Color temperature	5000 K
Color rendering index	80
Luminous flux	approx. 1680 lm (Net luminous flux)
Luminous efficacy	approx. 105 lm/W
Illumination	max. 732 lx (Distance of 1 m)
	min. 326 lx (Distance of 1 m over 1 m² area)
Average illumination	541 lx (Distance of 1 m over 1 m² area)
Emission angle	85 ° (C0-C180)

	95 ° (C90-C270)
Ordinance	Delegated Regulation (EU) 2019/2015
Energy efficiency class	C (2 light sources)
	E (1 light source)
Note	This product contains energy efficiency class C light sources.
	This product contains an energy efficiency class E light source.

Dimensions

Dimensional drawing	
Width	40 mm
Height	30 mm
Length	540 mm
Diameter	40 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 ... 50 °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)

Mounting

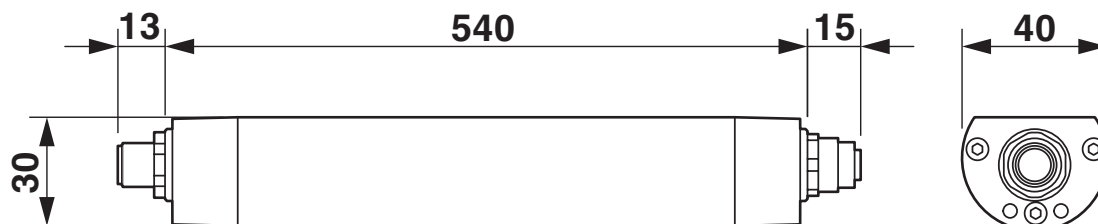|	
Mounting type	Screw mounting
Assembly note	Mounting with mounting holders or mounting brackets, please observe the notes in the package slip.
Mounting position	any

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Drawings

Dimensional drawing

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2702935

ETLus
Approval ID: LV-Lighting-Systems

cETL
Approval ID: Luminaires

EAC
Approval ID: TR_TS_D_12879-22

cETLus

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC000348

UNSPSC

UNSPSC 21.0	32151500

Environmental product compliance

EU RoHS

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

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	6264601a-ec50-4493-921f-6f34c0c84177

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Mandatory accessories

PLD M-ME MC/D40 - Mounting holder

2702492

https://www.phoenixcontact.com/us/products/2702492

Mounting holder, for machine lights PLD M 260 .../D40, Swiveling range ±20°

PLD M-ME MB/D40 - Mounting bracket

2702527

https://www.phoenixcontact.com/us/products/2702527

Mounting bracket, for machine lights PLD M 260 .../D40, Swiveling range ±45°

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

https://www.phoenixcontact.com/us/products/1668221

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

https://www.phoenixcontact.com/us/products/1668247

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