PLD M 140 W 615/D35/SC - LED machine light

1118024

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 85 °/101 °, length: 615 mm, diameter: 35 mm, degree of protection: IP54, can be swiveled, Dimming, can be switched in series

Product description

This LED machine light is designed to provide illumination inside or on machinery. The small diameter of just 35 mm enables mounting even where space is at a premium. The mounting accessories included also enable easy mounting on aluminum system profiles. In the mounting brackets supplied, the light can swivel and the lighting can therefore be optimally aligned. The brightness of the light can be adjusted in six levels by up to three control signals. This means that the brightness can be optimally adjusted to the relevant light conditions. The satin-finished plastic cover prevents glare for the machine operator. When using several lights, the series connection of the lights reduces cabling effort.

Your advantages

- Plug-in supply line enables free choice of the cable length as well as quick and easy installation
- Can be used at high temperatures and can be subjected to strong vibrations and shocks
- Can be swiveled up to ±75° using accessories
- Dimming
- Can be connected in series
- IP54 degree of protection
- 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	1118024
Packing unit	1 pc
Minimum order quantity	1 pc

Sales key	DRL221
Product key	DRL221
GTIN	4063151046323
Weight per piece (including packing)	840 g
Weight per piece (excluding packing)	862 g
Customs tariff number	94054239
Country of origin	DE

Technical data

Notes

Note on application

Note on application	Only for industrial use

Product properties

Product type	Machine light
Application	Machine
Mounting position	any
Special properties	can be swiveled ±75°
	Dimming adjustable in six levels
	can be switched in series

Electrical properties

Supply: Module electronics

Connection method	M12 connector, A-coded
Number of positions	5
Permissible conductor cross-section	min. 0.34 mm²
Supply voltage	24 V DC
Supply voltage range	22 V DC ... 26 V DC
Current consumption	typ. 0.708 A (at 24 V DC)
Power consumption	approx. 17 W (at 24 V DC)
Protective circuit	Surge protection; Suppressor diode, 36 V DC
	Reverse polarity protection; Polarity protection diode

Input data

Digital:

Input name	Digital inputs
Number of inputs	3
Input voltage range "0" signal	-3 V DC ... 5 V DC
Input voltage range "1" signal	15 V DC ... 30 V DC
Nominal input voltage U_{IN}	24 V DC
Input frequency	max. 2 Hz

Signaling

Light properties

Source of light type	LED
Number of LEDs	48
Color temperature	≥ 5000 K
Color rendering index	80
Luminous flux	approx. 2200 lm (Net luminous flux)

Luminous efficacy	approx. 129 lm/W
Illumination	max. 856 lx (Distance of 1 m)
	min. 420 lx (Distance of 1 m over 1 m² area)
Average illumination	648 lx (Distance of 1 m over 1 m² area)
Emission angle	85 ° (C0-C180)
	101 ° (C90-C270)
Ordinance	Delegated Regulation (EU) 2019/2015
Energy efficiency class	C (2 light sources)
Note	This product contains energy efficiency class C light sources.

Dimensions

Dimensional drawing	
Width	35 mm
Height	38.5 mm
Length	615 mm
Diameter	35 mm
Note on dimensions	Length without M12 flush-type connector, height including mounting holder

Material specifications

Color	aluminum color

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	0 °C ... 50 °C
Degree of protection	IP54
Air pressure (operation)	69 kPa ... 102 kPa
Air pressure (storage/transport)	69 kPa ... 102 kPa
Ambient temperature (storage/transport)	-10 °C ... 50 °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	25g

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	1097919
Model ID	803785
Energy efficiency class	C
Number of light sources	1

Energy labeling (Light source 2)

Registration number	1097927
Model ID	804473
Energy efficiency class	C
Number of light sources	1

Standards and regulations

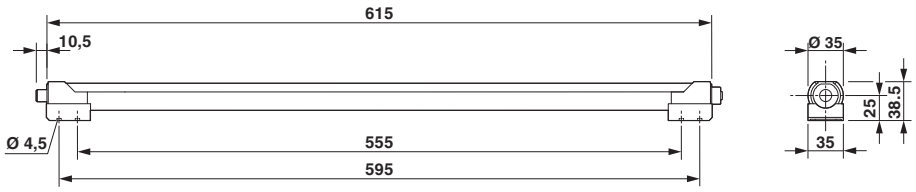
Protection class	III (IEC 61140, EN 61140, VDE 0140-1)

Mounting

Mounting type	Screw mounting (via supplied mounting brackets and fastening elements)
Mounting position	any

Drawings

Dimensional drawing



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1118024

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), 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	c4e665b3-1d72-4052-8406-9e5db7a5f9ea

EF3.1 Climate Change

CO2e kg	21.797 kg CO2e

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