

# PLD M 160 W-95/105 616 - LED machine light



2702477

<https://www.phoenixcontact.com/us/products/2702477>

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LED machine light, 24 V DC, emission angle (vertical/Horizontal): 95 °/105 °, length: 616 mm, degree of protection: IP67, can be swiveled, including mounting accessories

## Product description

This LED machine light is designed to provide illumination inside or on machinery. Due to the narrow design, it can be mounted even where space is at a premium. In the light holder supplied, the light can swivel and the lighting can therefore be optimally aligned. The satin-finished plastic cover prevents glare for the machine operator.

## Your advantages

- Narrow design enables mounting even in confined spaces
- Ready to connect by means of punched-on 3 m supply line
- Focused illumination, thanks to swivel action
- IP67 protection enables use even in wet environments
- 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 50000 h

## Commercial data

Item number	2702477
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR08
Product key	DRL221
GTIN	4055626213828
Weight per piece (including packing)	822 g
Weight per piece (excluding packing)	700 g
Customs tariff number	94054239
Country of origin	DE

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## Technical data

### Notes

#### Note on application

Note on application	Only for industrial use
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### Product properties

Product type	Machine light
Application	Machine
Mounting position	any
Special properties	can be swiveled Swiveling range $\pm 35^\circ$ including mounting accessories

### Electrical properties

#### Supply: 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. 0.58 A (at 24 V DC)
Power consumption	approx. 14 W (at 24 V DC)
Protective circuit	Surge protection; Suppressor diode, 28 V DC Reverse polarity protection; Polarity protection diode

### Signaling

#### Light properties

Source of light type	LED
Number of LEDs	24
Color temperature	6600 K $\pm 10\%$
Color rendering index	75
Luminous flux	approx. 600 lm (Net luminous flux)
Luminous efficacy	approx. 43 lm/W
Illumination	max. 691 lx (50 cm distance) min. 100 lx (Distance of 50 cm over 1 m <sup>2</sup> area)
Average illumination	336 lx (Distance of 50 cm over 1 m <sup>2</sup> area)
Emission angle	95 ° (C0-C180) 105 ° (C90-C270)
Ordinance	Delegated Regulation (EU) 2019/2015
Energy efficiency class	E (4 light sources)
Note	This product contains energy efficiency class E light sources.

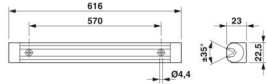
### Dimensions

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Dimensional drawing	
Width	22.5 mm
Height	23 mm
Length	616 mm

## Material specifications

Color	aluminum color
Material	Anodized aluminum (Light housing) Satined acrylic (Light cover)

## Environmental and real-life conditions

### Ambient conditions

Ambient temperature (operation)	0 °C ... 40 °C
Degree of protection	IP67
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)

### Energy labeling

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

### Energy labeling (Light source 1)

Registration number	1933864
Model ID	812293
Energy efficiency class	E
Number of light sources	4

## Standards and regulations

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

Mounting type	Screw mounting (via supplied light holder)
Mounting position	any

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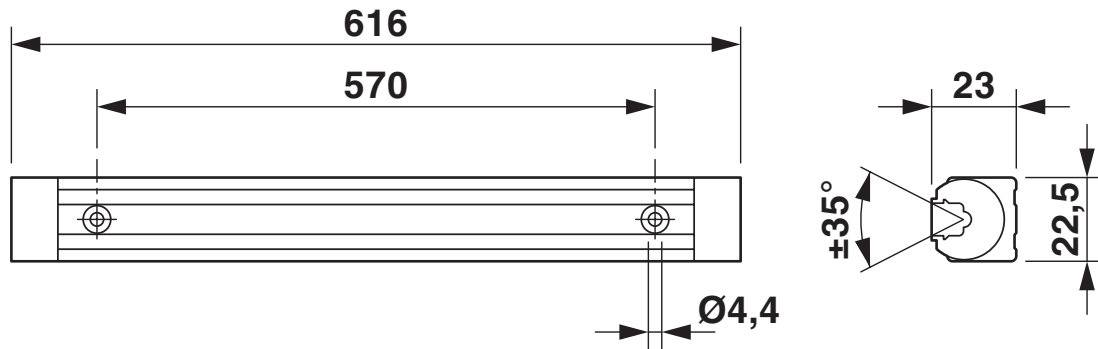


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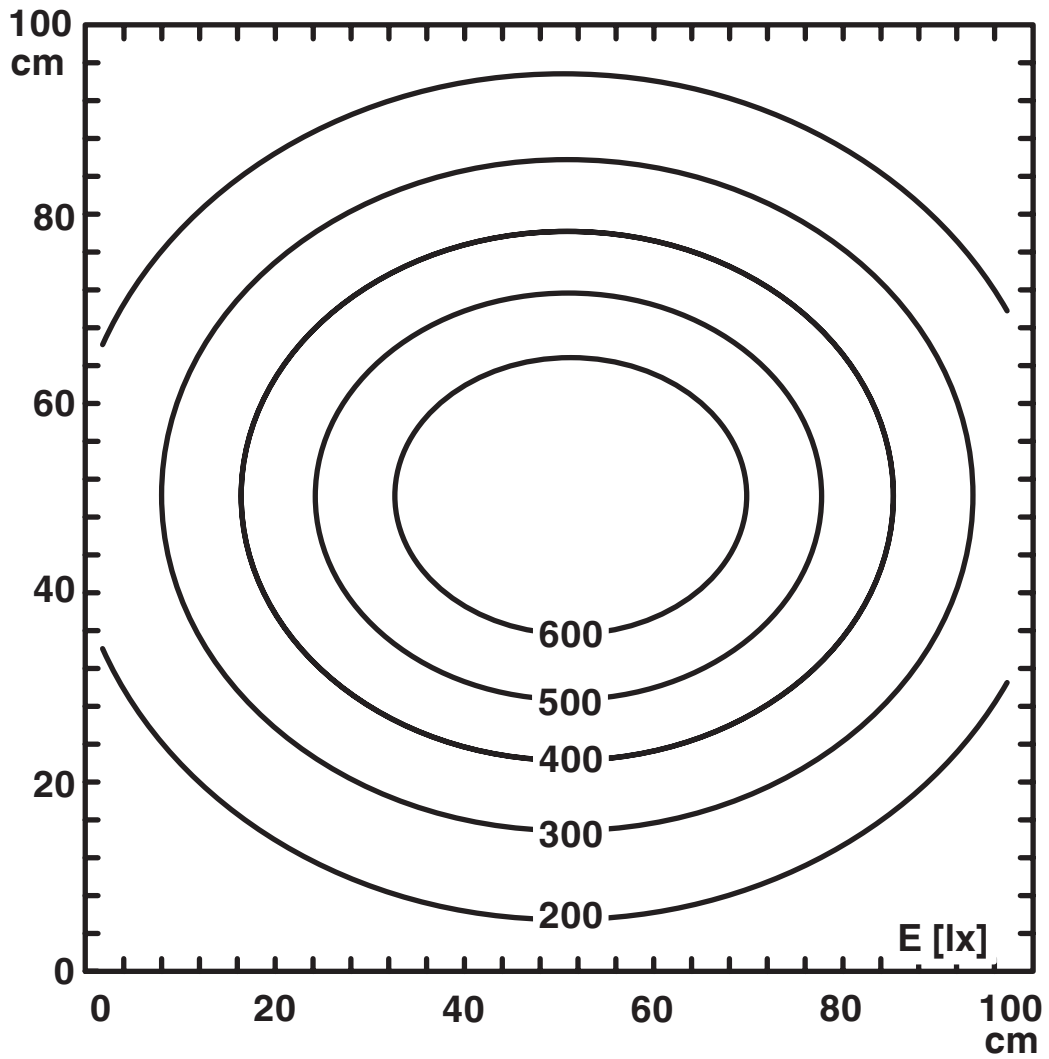
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## Drawings

Dimensional drawing



Diagram



Illuminance distribution  
(distance  $d = 0.5$  m)

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Diagram



Luminous intensity distribution (LID)  
(red line: C0 - C180, blue line: C90 - C270)

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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2702477>



**ETLus**

Approval ID: LV-Lighting-Systems



**cETL**

Approval ID: Luminaires



**EAC**

Approval ID: TR\_TS\_D\_12879-22

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## Classifications

### ECLASS

ECLASS-13.0	27110345
ECLASS-15.0	27110345

### ETIM

ETIM 10.0	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, 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)
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### EF3.1 Climate Change

CO2e kg	15.11 kg CO2e
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