




LED2WORK 121011-05 Machine Lighting Instruction Manual

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INTELLIGENCE IN LIGHT

MACHINE LIGHTING

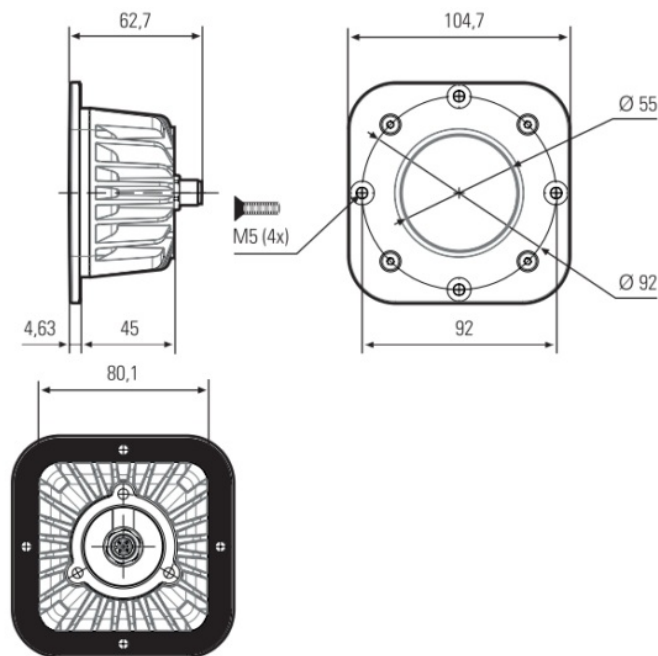
CENALED SPOT DC Einbau

Operating Instructions | LED recessed light

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Drawings



Structure of safety and supplementary information

Important instructions are marked with signal words or symbols in this operating manual. Some signal words denote the degree of the potential risk of injury. Colours and the different shades of grey and triangular symbols visually underline the degree of danger.

 DANGER	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	Indicates a potentially hazardous situation which, if not avoided, could result in minor or slight injury.
 ATTENTION	Indicates a potentially hazardous situation which, if not avoided, could result in property damage.
 NOTE	Gives you additional information for the safe and efficient use of the product.
	Refers to compliance with these operating instructions.
	CE marking: confirms conformity with applicable standards and regulations. ETL-safety test seal for North America: Proof of compliance with standards in the USA and Canada: e.g. UL, CSA, NEC, NFPA, NSF, ANSI and NOM.

Proper use

The light is used for illumination. A continuous operation is admissible. For connection values, see luminaire label and/or "Technical data".



The safety information and all other information in this manual must be followed. Read the entire operating manual carefully before mounting and turning on.

For safe operation

The operating parameters of the LED light specified on the type plate must correspond to the supply parameters of the machine or of the switched-mode power supply.

Operate the light only in a mounted status.

⚠CAUTION	Under no circumstances may the light be covered with cloths, foils or similar. Object distance the light -emitting surface should be at least 10 cm (3.94").
⚠ATTENTION	Machines can emit voltage spikes due to various factors. These voltage spikes in the power supply via machines should be avoided: Only use regulated 24V DC switched-mode power supplies, not transformers with rectifiers, as these can give rise to voltage spikes due to inductance. Hot plugging should be avoided (connection of the light to a power supply which is already connected to the mains), since this can lead to the destruction of the LED light.
⚠ATTENTION	LED lights react sensitively to high voltage transients if the necessary PSU are incorrectly selected. Choose a power supply solution that is adapted to your interference environment.
▶NOT E	Lights without grounding and with conductive housing supplied via safety extra low voltage (SELV – protection class III), smallest discharge currents may occur when contact is made. According to DIN VDE 0701 – 0702, this discharge current must be limited to a maximum of 0.5 mA. All corresponding products from LED2WORK GmbH fall significantly below this specification.

Safety information

⚠WARNING	Installation of electrical equipment may only be carried out by qualified electricians. Follow the five safety rules according to DIN VDE 0105. Failure to do so may result in damage to the LED light, as well as fire or other hazards.
⚠DANGER	Danger of electric shock! Disconnect before working on the device or load. Ensure to disconnect all circuit breakers that supply dangerous voltages to the device or load, when doing so. Even when the device is switched off, the load is not galvanically isolated from the mains.
⚠ATTENTION	Only use the device if it is completely free of faults, and with safety and awareness in mind. If warnings or symbols are attached to the light, they must not be removed.

Assembly / Mounting

Check the LED light before installation to ensure it is complete and shows no signs of damage. Do not use the light or accessories if they are damaged, as there is a risk of injury.

The LED light comes fully assembled. A seal is included in the scope of delivery. The LED Light is for installation in a vertical installation bay (Dimensions of the lights in the drawings). The light is sealed via the seal inserted into the luminaire frame from the rear.

⚠CAUTION

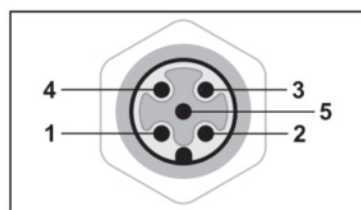
When mounting the light, make sure that the light is fastened securely and stably. If the light falls down, its weight

poses a risk of injury!

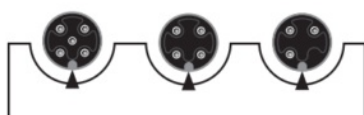
Connection

Suitable connection material, cables and accessories can be found in the accessory range of LED2WORK.

PIN assignment of the M12 connector is as follows:



Schematic drawing of M12 plug



Possible variants of the M12 connector

PIN assignment

PIN 1 = 24V DC

PIN 2 = not used

PIN 3 = GND

PIN 4 = 24V DC

PIN 5 = not used

NOT E	PIN 3 = 0V DC. 24V DC for supply can be connected to PIN1 or PIN 4. It is not necessary to assign both PINs (PIN 1 and PIN 4) at once!
NOT E	The light is not equipped with a ON/OFF switch. Usually you switch the light ON or OFF via external switches of machines or systems.

Maintenance and Care

The LED light is maintenance-free. Do not make any alterations to the light (except according to the mounting information contained in this manual).

⚠ATTENTION Do not open the light!

The LED light sources mounted in the light are connected to the luminaire housing in a special way (thermal coupling) and may react sensitively to electrostatic discharges (ESD). Improper replacement of the illuminant or other components may impair the tightness of the light. That is the reason why repairs may only be carried out by the manufacturer or by persons authorised and qualified by the manufacturer. Turn off the light before cleaning and let it cool down completely. Clean the outside of the light with a soft, dry and clean cloth. To remove excess dirt, moisten the cloth with water. Never use aggressive cleaning agents, as these may cause discolouration of the housing.

⚠ATTENTION

No liability is assumed for damages resulting from the use of unsuitable cleaning agents.

Warranty

We supply a full warranty for the product for 36 months from the date of purchase. This warranty applies for fault-

free working under proper use and in accordance with the operating instructions.

During the warranty period defects and faults in the product will be rectified free of charge if they are proven to be caused by material, processing or design errors. If the purchaser complains of a material defect, he bears the burden of proof to demonstrate that the product was already defective upon receipt.

►NOTE

The warranty does not extend to defects caused by wear, negligence or improper use.

Further claims, in particular claims for compensation for damage that did not occur on the LED light itself, are excluded.

Disposal

⚠ATTENTION



— The light must be disposed of at a suitable disposal site designated for recycling of electrical and electronic equipment in accordance with local, national regulations. (WEEE-No 32828318)

Customer service

If you have any problems or questions concerning this product, please contact us!

By phone: +49 7231 44920-00

Monday to Thursday 8 am to 12 midday and 1 pm to 4:30 pm

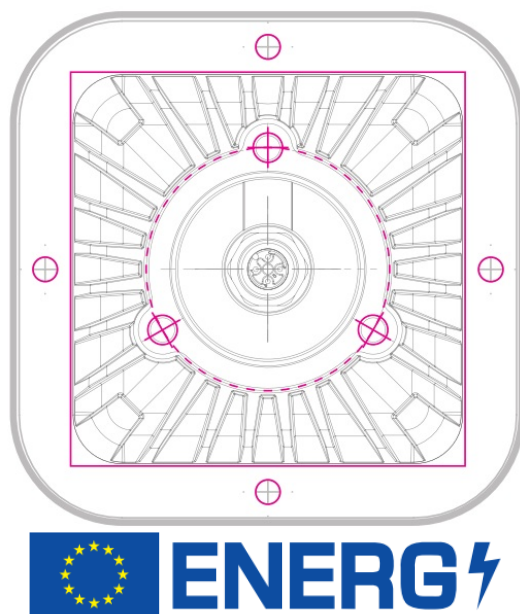
Friday 8 am to 12 midday and 1 pm to 3 pm

By email: info@led2work.com

Technical data

Connection values	24V DC $\pm 10\%$
Class of protection	III
LED lifetime	> 60.000 h (L80/B10)
Operating temperature	-10... +50°C (14... 122°F)
System of protection	IP67
Technical safety inspection	DIN EN 62471
Light colour	5000K
Colour rendering	Ra ≥ 80

LED light	Product no.	Optics	Max. current	Max. power consumption
CENALED SPOT DC Einbau	121011-05	15°	0,35 A	~8,5 W
CENALED SPOT DC Einbau	121012-05	30°	0,35 A	~8,5 W
CENALED SPOT DC Einbau	121013-05	65°	0,35 A	~8,5 W



Particulars according to the Regulation ErP 2019/2020/EU (Energy-Related Products)
2941-5040-00-LE-55×55 is a light source with energy efficiency class E



Included light sources:

Light Engine

Product no.	2941-5040-00-LE-55×55
121011-05	1
121012-05	1
121013-05	1



Description of the electrical equipment:

Function: The LED light is used to light up a working area

Type/Model: CENALED SPOT DC Aufbau | CENALED SPOT DC Einbau

Item no.: 121011-04, 121012-04, 121013-04, 121011-05, 121012-05, 121013-05

Year of manufacture: from March 2023

Conformity with other directives/regulations that apply to the product is declared:

2014/30/EU	EMC Directive dated 26.02.2014
2014/35/EU	Low Voltage Directive dated 26.02.2014
2011/65/EU	RohS Directive dated 08.06.2011
2009/125/EG	Ecodesign Directive dated 21.10.2009 with Regulation 2019/2020/EU
1907/2006	Regulation (EC) No. 1907/2006 (REACH Directive) dated 1st June 2008; SVHC proportion > 0.1%

Applied harmonised standards that have been applied:

DIN EN 55015:2016-04

DIN EN 61547:2010-03

DIN EN 60598-1:2015 + A1:2018

DIN EN 60529:2014-09

DIN EN 61347-1:2016-05

DIN EN 62471:2009-03

Year of the CE marking: 2023

This declaration of conformity shall lose its validity in the event that the product is modified or changed without our consent.

Pforzheim, 2022-02-28 Jan Schiga, Management Board

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UK Declaration of Conformity

Description of the electrical equipment:

Function: The LED light is used to light up a working area

Type/Model: CENALED SPOT DC Aufbau | CENALED SPOT DC Einbau

Item no.: 121011-04, 121012-04, 121013-04, 121011-05, 121012-05, 121013-05

Year of manufacture: from March 2023

Conformity with other directives/regulations that apply to the product is declared:

S.I. 2016 No. 109 1	Electromagnetic Compatibility
S.I. 2016 No. 110 1	Electrical Equipment (Safety) Regulations
S.I. 2012 No. 303 2	Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
S.I. 2010 No. 261 7	Ecodesign for Energy-Related Products Regulations

Applied harmonised standards that have been applied:

EN IEC 55015:2019/A11:2020

EN 61547:2009

EN 61000-3-2:2014
EN 61000-3-3:2013
EN 60598-1:2015 + A1:2018
EN 60529:1991/A2:2013/AC:2019-02
EN 61347-1:2015
EN 62471:2008

**Year of the UKCA marking:
2023**

This declaration of conformity shall lose its validity in the event that the product is modified or changed without our consent.

Pforzheim, 2022-02-28 Jan Schiga, Management Board


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Conforms to UL 2108,
Cer. to CSA C222#2500
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Errors and technical changes excepted.

Documents / Resources

	<p>LED2WORK 121011-05 Machine Lighting [pdf] Instruction Manual 121011-05, 121012-05, 121013-05, 121011-05 Machine Lighting, 121011-05, Machine Lighting, Lighting</p>
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References

- [LED2WORK Onlineshop: Hochwertige LED-Beleuchtungen](#)
- [User Manual](#)

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