

item

LED Machine Light Fitting 6W - 30W
Notes on Use and Installation

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Symbols, safety



Important, safety information, recommendation



Important information



CE conformity mark



Device corresponds to protection class III
(operation with safety extra low voltage SELV)



Functional earth



Observe the disposal instructions



Observe the disposal instructions

General safety information

The details and information in the installation guide are provided for the purposes of describing the product and its assembly only. The information does not discharge the user from the obligation to carry out his own assessments and checks. It is important to bear in mind that our products are subject to a natural process of wear and ageing. These notes contain important information that will enable you to use the product safely and appropriately. When sold, rented out or otherwise passed on to another party, this product must be handed over with the installation guide. You must therefore read and follow the safety instructions set out below.

- All work on and with LED Light Fitting must be performed with "safety first" in mind.
- Switch off the power to LED Light Fitting before carrying out any work on it.
- Ensure LED Light Fitting cannot be switched on unintentionally, e.g. by affixing warning notices at the activation point or by removing the fuse from the power supply.
- Observe the regulations pertaining to accident prevention and environmental protection that apply in the country and place of work where the product is being used.
- Use only item products that are in perfect working order.
- Failure to use original spare parts will invalidate the product warranty!
- Check the product for obvious defects.
- Use the product only within the performance range described in the technical data.
- Ensure that all the safety equipment associated with the product is present, properly installed and in full working order.
- Do not alter the position of safety equipment, circumvent it or render it ineffective.

LED Light Fitting, as described here, corresponds to the state of the art and takes into account the general principles of safety applicable at the time this installation guide was published. Nevertheless, failure to observe the safety

instructions and warning notices in this installation guide may result in personal injury and damage to property. We will assume no liability for any resulting damage or injury. We reserve the right to make technical changes that represent technical advances. Keep these installation notes in a place where they can be easily accessed by all users. The general safety information applies to the entire lifecycle of LED Light Fitting.

1. During transportation

Observe the handling instructions on the packaging. Until it is installed, the product must be stored in its original packaging, protected from moisture and damage. Ensure that moving parts are secured when in transit and cannot cause any damage.

2. During installation

Always ensure the relevant section of your overall system is not live before installing the product and/or plugging it in or unplugging it. Ensure the system cannot be switched back on. Lay cables and lines in such a way that they cannot be damaged and do not represent a trip hazard. Avoid areas that pose slip, trip and fall hazards.

3. During start-up

Allow the product to acclimatise for a few hours before starting it up. Ensure that LED Light Fitting is securely and safely integrated into the system. Only start up a product that has been installed in full.

4. During operation

Ensure that only persons who have been authorised by the operator have access to the immediate operating environment of the system. During emergencies, malfunctions or other irregularities, deactivate the system and ensure that it cannot be switched back on. Prevent the possibility of persons becoming trapped in the system's hazard zone.

5. During cleaning

Close all openings with suitable protective equipment to ensure that cleaning agents cannot penetrate the system. Do not use aggressive cleaning substances. Do not use a high-pressure cleaner when cleaning the system. Wipe with a damp cloth only.

6. During maintenance and servicing work
Carry out the prescribed maintenance work at the intervals stipulated in the user guide. Ensure that no cables, connections or components are detached or removed. Ensure the system cannot be switched back on.

7. During disposal
Dispose of the product in accordance with the national and international regulations that apply in your country.

⚠ Danger

Risk of explosion:
Only operate the light in non-hazardous areas. An operation in hazardous areas can trigger an explosion.

⚠ Warning

Hazard of electrical shock upon contact:
Before carrying out any maintenance or repair work disconnect the light from the mains. Maintenance and repair work only by skilled electrician. Use only parts released by the manufacturer as spare parts. Improperly executed maintenance and repair may result in serious injuries or death..

Attention

Damage caused by wrong mains voltage:
Connection only by skilled electrician. Operate devices of protection class III only with safety extra low voltage (SELV). Before putting into operation check that the connection voltage corresponds to the given rated voltage. A wrong connection voltage can result in damaging or destroying the lamp.

⚠ Warning

Risk of blinding:
Position the light in such a way that looking directly into the light source is avoided. Do not look directly into the light source. Looking directly into the light source can lead to temporarily impaired vision and after-images. This may result in irritations, inconveniences, impairments or accidents.

Attention

Damage caused by hitting laser beam:
Use the lamp only outside the range of action of high-performance lasers (e.g. laser for cutting or welding). A direct or indirect hit of the laser beam can destroy the LED.

Correct use

The LED Light Fittings must only be used in accordance with the technical data and safety requirements set out in this document. Internal company requirements and the regulations that apply in the country where the product is being used must be observed. You must not make any design modifications to the LED Light Fittings yourself. We will assume no liability for any resulting damage or injury. You may only install, operate and maintain the LED Light Fittings if:

- The LED Light Fittings have been integrated into their surroundings in a proper and safe manner, You have carefully read and understood the installation guide,
- You are appropriately qualified,
- You are authorised to do so by your company,
- You are using only original equipment from the manufacturer.
- The LED Light Fittings are suitable for connection to a 24V DC power supply only.
- They are designed for indoor use.
- The LED Light Fittings must not be opened.

⚠ Unsafe or inappropriate use of the LED Light Fittings runs a risk of serious injury through electric shock.

Improper use

Improper use is defined as any use of the product for purposes other than those authorised in the installation guide and under the definition of correct use. We will assume no liability for any resulting damage or injury.

Technical data

General:
Protection class III
Protection type IP67
Operating mode continuous operation
Connection M8
Electrical values:
Nominal voltage 24 V DC

Power consumption

Machine Light Fitting LED 6W 40x40x240	6 Watts
Machine Light Fitting LED 12W 40x40x415	12 Watts
Machine Light Fitting LED 18W 40x40x590	18 Watts
Machine Light Fitting LED 24W 40x40x765	24 Watts
Machine Light Fitting LED 30W 40x40x940	30 Watts

Attention

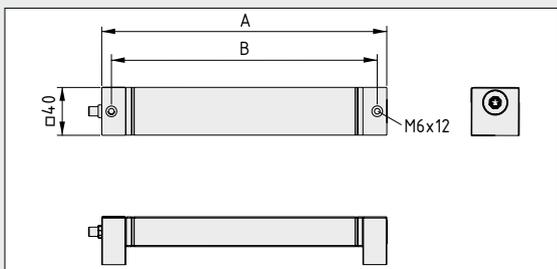
Risk of damage by deviation from standard version:
When required this series of devices will be extended by further versions. Technical data are therefore subject to modification. Please observe always the data and symbols on the rating plate.

Mounting

The item LED Machine Light Fitting is mounted with the enclosed mounting kit on a profile of the series 8. The item LED Machine Light Fitting can also be attached at surfaces using the threaded hole M6x11 of the cylindric fastening element. For the fixation, at first screw the cylindric fastening element on the profil or panel. In the next step tighten the LED Machine Light Fitting with the help of the grub screw M6.

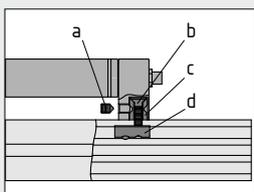
⚠ Caution

Risk due to insufficient fastening:
Mounting only by skilled electrician. Mounting only on a flat surface suitable for mounting. Verify the reliability of mounting elements which have not been proposed by the manufacturer. The light must be mounted safely by means of suitable screws. When mounted incorrectly, the light may fall down.

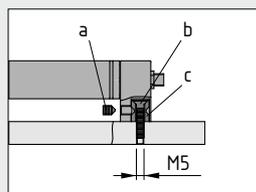


LED Machine Light Fitting	Art.-Nr.	A [mm]	B [mm]
6W 40x40x240	0.0.656.15	239	225
12W 40x40x415	0.0.656.16	414	400
18W 40x40x590	0.0.656.17	589	575
24W 40x40x765	0.0.656.18	764	750
30W 40x40x940	0.0.656.19	939	925

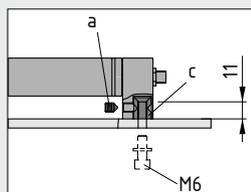
All LED Machine Light Fittings from the 6W version upwards feature an integrated hinge.



Fixation to a Profile Line 8



Fixation to a panel with threaded hole



Fixation to a panel with drill hole

Installing an LED Machine Light Fitting on a Profile 8 using the fastening elements supplied:

a = T-Slot Nut V 8 St M5 (0.0.480.54)

b = cylindric fastening element

c = grub screw M6

Light with M8 connector:

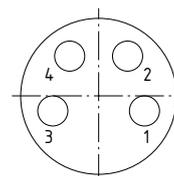
For lights with M8 connector a coupling has to be used for the connection which guarantees the compliance with the protection type. To guarantee an optimum tightness of the M8 connector it is necessary to fix the union nut hand-tight. The power supply connector system (connecting cable machine light LED, 0.0.656.52) are reverse polarity protected and have to be connected by snapping.

ⓘ Note for DC version:

The light is protected against polarity reversal.

Attention

Damage caused by wrong mains voltage:
Connection only by skilled electrician. The connection has to be done according to the current regulations for installation. Before putting into operation check whether the mains voltage corresponds to the given rating voltage. A wrong mains voltage may damage or destroy the light.



Female insert M8

Connection (4 pins),

A-coded:

1 = DC (+)

2 = NC (not connected)

3 = DC (-)

4 = NC (not connected)

Description LED Machine Light Fitting

Our machine lights are based on the newest LED technology. They combine efficiency and profitability with a robust construction. The LED Machine Light Fitting was developed for the use on machine tools and machining centers: for the basic lighting of the machine or for the illumination of the immediate machining area, depending upon the placement. The LED Machine Light Fitting can also be used as workstation lighting.

LEDs (light emitting diodes) have a high average service life. Fewer maintenance works lead to less machine downtimes. The anodised aluminium casing is watertight. Not for use with coolants, lubricants, hot and sharp-edged shavings. In each case and for other versions please ask.

Operation

Switching the lamp on and off:

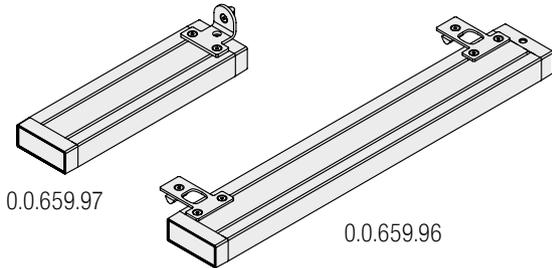
As a standard the light has no built-in switch. It is switched on and off via exter-

nal circuit elements or connectors.

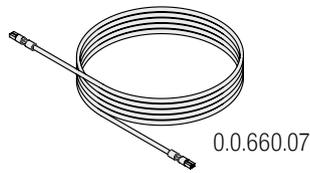
LED Machine Light Fitting and LED Light Fitting accessories

1 Select light fitting

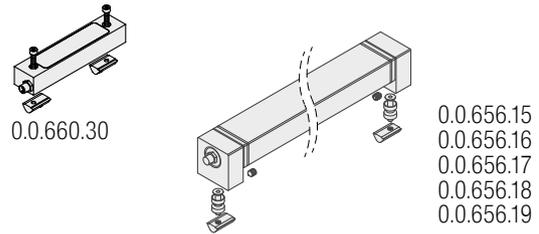
LED Light Fitting 15W / 30W



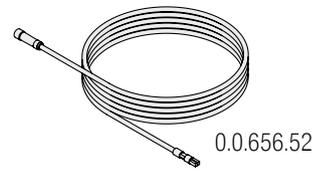
Connecting Cable, LED Light Fitting



LED Machine Light Fitting
5W / 6W / 12W / 18W / 24W / 30W



Connecting Cable, LED Machine Light Fitting



2 Select optional accessories

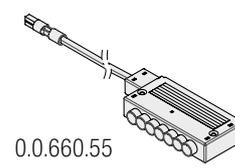
Extension Cable, LED Light Fitting



Two-way LED Splitter



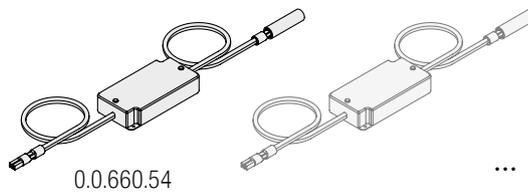
Six-way LED Splitter



Wireless LED Dimmer Remote

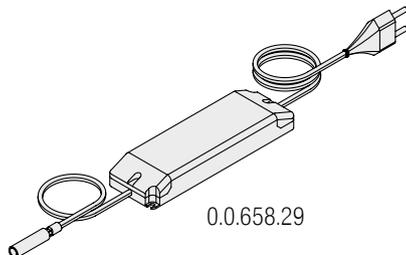


Wireless LED Dimmer Receiver

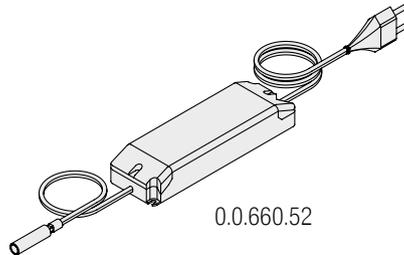


3 Select transformer

Electronic Transformer LED 30W 24V



Electronic Transformer LED 75W 24V



Select the transformer as appropriate to the connected light fittings.

Maintenance and repair

Maintenance and repair of electrical devices have to be done only by skilled electricians.

Defective lamp:

The light is equipped with a light emitting diode (LED). The useful life of LEDs surpasses by far that of other conventional lamps (e.g. light bulbs). Therefore a lamp replacement is seldom necessary. If the LED fails nevertheless, the light has to be checked by the manufacturer and eventually repaired. Please send the complete lamp to the manufacturer.

Warning

Hazard of electrical shock upon contact:

Before carrying out any maintenance or repair work disconnect the light from the mains. Maintenance and repair work only by skilled electrician. Use only parts released by the manufacturer as spare parts. Improperly executed maintenance and repair may result in serious injuries or death.

Care

Attention

Risk of damage caused by wrong care:

Clean the transparent cover regularly. Cleaning of the lamp parts only with a

cloth with standard household cleaning agent. Please make sure that the used agents are compatible with paints and plastics. Wrong care may destroy the device.

Disposal

Attention

Environmental hazard:

At the end of its useful life dispose of the device by using the available recycling systems. Wrong disposal endangers our environment.

Transport Packaging:

Cardboard carton and PE foil

For disposal of the packaging please use the available recycling systems.



Currency

The item Industry GmbH guaranteed by a process of continuing improvement of our products the high level of innovation. Because of this, the product you have purchased may differ from the information supplied in the manual instruction. Errors and omissions cannot be entirely ruled out.

We hope you will appreciate that no claims can be entertained on the basis of the data, illustrations or descriptions in this manual. For the current manual instruction, see www.item24.com

item Industrietechnik GmbH

item**EU-Konformitätserklärung / EC-Declaration of Conformity**

Gerätetyp / Device Typ: 24V LED Maschinenleuchte / 24V LED machine light
24V LED Arbeitsplatzleuchte / 24V LED Workplace Light

Typenbezeichnung / Classification:

Maschinenleuchte LED 5W 25x20x120	0.0.660.30
Maschinenleuchte LED 6W 40x40x240	0.0.656.15
Maschinenleuchte LED 12W 40x40x415	0.0.656.16
Maschinenleuchte LED 18W 40x40x590	0.0.656.17
Maschinenleuchte LED 24W 40x40x765	0.0.656.18
Maschinenleuchte LED 30W 40x40x940	0.0.656.19
Leuchte LED 15W 80x32x300	0.0.659.97
Leuchte LED 30W 80x32x300	0.0.659.96

Hersteller / Producer: item Industrietechnik GmbH
Friedenstraße 107-109
D-42699 Solingen
Germany

Die Produkte sind entwickelt und gefertigt in Übereinstimmung mit der EMV-Richtlinie 2014/30/EU und der Niederspannungsrichtlinie 2014/35/EU. Sie erfüllen die Vorschriften der Richtlinie 2011/65/EU des europäischen Parlaments und des Rates (RoHS II) vom 8. Juni 2011 zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe in Elektro- und Elektronikgeräten.

The products are developed and produced in accordance with the EMC directive 2014/30/EU and the low voltage directive 2014/35/EU. They are in conformity with the directive 2011/65/EU of the European parliament and the council (RoHS II) of 8 June 2011 on restriction of the use of certain hazardous substances in electrical and electronic equipment.

Folgende harmonisierte Normen sind angewandt / The following harmonized standards are applied:

DIN EN 55015	Elektromagnetische Verträglichkeit (EMV) Grenzwerte und Messverfahren für Funkstörungen von elektrischen Beleuchtungseinrichtungen und ähnlichen Elektrogeräten (CISPR 15:2013 + IS1:2013 + IS2:2013); Deutsche Fassung EN 55015:2013 Electromagnetic compatibility (EMC) Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2013 + IS1:2013 + IS2:2013); German version EN 55015:2013
DIN EN 61547	Elektromagnetische Verträglichkeit (EMV) Einrichtungen für allgemeine Beleuchtungszwecke - EMV-Störfestigkeitsanforderungen (IEC 61547:2009); Deutsche Fassung EN 61547:2009; Deutsche Fassung EN 55015:2013 Electromagnetic compatibility (EMC) Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2009); German version EN 61547:2009
DIN EN 60598-1	Leuchten - Teil 1: Allgemeine Anforderungen und Prüfungen (IEC 60598-1:2014, modifiziert); Deutsche Fassung EN 60598-1:2015 Luminaires - Part 1: General requirements and tests (IEC 60598-1:2014, modified); German version EN 60598-1:2015
DIN EN 62471	Photobiologische Sicherheit von Lampen und Lampensystemen (IEC 62471:2006, modifiziert); Deutsche Fassung EN 62471:2008 Risikostufe 1: geringes Risiko Photobiological safety of lamps and lamp systems (IEC 62471:2006, modified); German version EN 62471:2008 Risk level 1: low risk

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Solingen, März 2019



Stephan Buchmann, Geschäftsführer / Managing Director

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You find the Notes on Use and Installation online, in the download section for this product.