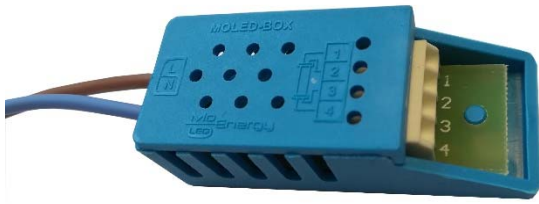


M OLED®-BOX – installation instructions trained electricians

Art. No.: M OLED®-BOX

Electrical equipment with patented protection for all LED tubes for direct mains connection. **M OLED®-BOX** is not suitable for LED tubes, which can only be operated with ECGs. Protection if a fluorescent tube is installed in a fixture wired for LED.



Operating voltage range:

200V ... 260V AC

Operating current:

I=0,13A at U_N=230V and secondary load P=30W

Rated power of the LED-tube:

max. 30W

Energy efficiency class:

A+++

Dimensions:

Length 51mm x width 20mm x height 16,5mm

Output connections:

Connection cord: brown, blue app. 30cm

single wires using Push Wire Technology®

0,5 ... 1,5mm² / 20 ... 16 AWG, insulation removed 8

... 9mm

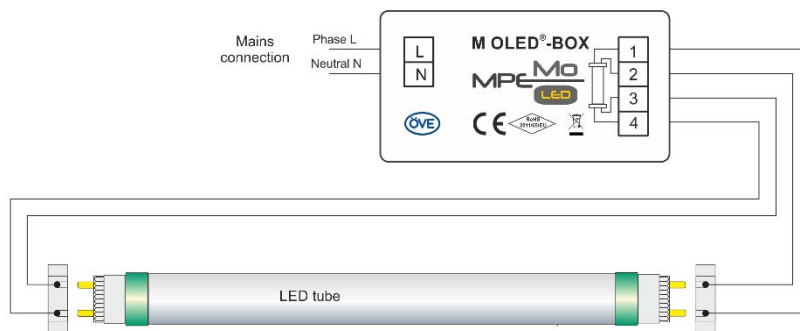
Protection class:

IP20 indoor usage only

Operating temperature range:

-20°C ... +40°C

Wiring diagram:



Procedure:

- Before modification of the lamp, it is absolutely necessary to switch off the power supply and secure it against being switched on again.
- Establish the electrical connections as indicated in the wiring diagram.
- Mount **M OLED®-BOX** mechanically stable in the luminaire (double-sided adhesive tape, cable ties etc., mounting accessories is available on request).
- Attach the supplied label on the luminaire in a clearly visible place and durably.

M OLED® - BOX installed www.moled.at

Final replacement for all kinds of ballasts

Applicable for LED-tubes only!

Fluorescent tubes must not remain in the fixture!







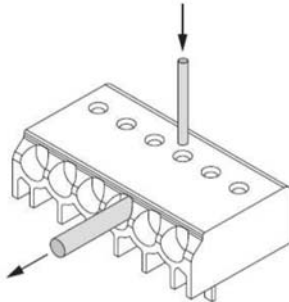


Hints:**Connecting wires:**

If the ballast of the luminaire is to be replaced by **M OLED®-BOX** and the wires are sufficiently long, all wires should be loosened as close as possible to the ballast. The wires can then be connected to the **M OLED®-BOX**.

Removing the connection wires from the WAGO connector:

Loosen by turning and pulling or using Ø 1 mm loosening tool

**Electrical safety**

Contact points which result from the wiring must be protected by an insulation sufficient against voltages up to at least 4 kV. Air and creepage distances must be observed.

Do not install mains cables together with the secondary LED lines.

Fluorescent tubes inserted into the LED fixture by fault must not remain in the luminaire for an extended period of time.

Environmental conditions

Ballasts (CCG, ECG) and thus also the **M OLED®-BOX** are exposed to special influences in certain special applications:

Humidity

Outdoor luminaires are designed according to EN 60598-1 and are typically designed with a high degree of protection and are therefore protected against condensation and moisture. **M OLED®-BOX** is treated in the same way as all other electrical components. Measures must be taken to ensure that any condensation water that may occur does not affect the safety and the performance. **M OLED®-BOX** should therefore not be installed in recesses in which condensation can accumulate. Rather, inclined positions are preferred in which the possibly occurring condensation water can flow off. The wiring should be provided so that the wires are led from below to the **M OLED®-BOX**.

Temperature:

M OLED®-BOX is designed for defined ambient temperature ranges (t_a), see data sheet. The installation of the luminaire must be carried out in such a way that the maximum ambient temperature is not exceeded permanently. A short-term exceedance of +10°C is provided for in EN 60598-1 and is tolerated without loss of quality.

**Important safety note:**

If M OLED®-BOX shows visible damage, the device must be put out of operation immediately and secured against being switched on again.

EMC

Due to its physical properties, the **M OLED®-BOX** does not disturb other electrical equipment and is not disturbed by these.

Application hints:

We would like to point out that **M OLED®-BOX** is not applicable for the following products, because they are only suitable for special ballasts and cannot be connected directly to the supply network:

Products of the product families of **Philips:**

- **MASTER LEDtube T8 InstantFit EVG**
- **MASTER LEDtube T5 InstantFit EVG**

OSRAM:

- **SubstiTUBE Value HF**
- **SubstiTUBE Advanced HF**
- **SubstiTUBE Advanced Ultra Output HF**

All products of MPE mbH are suitable for direct mains connection and can thus be used without problems and advantageously with **M OLED®-BOX**. Here is an excerpt from our product range with the corresponding article numbers:

LI-T8-MO15-8xx-24W-Cover-ERV
LI-T8-MO15-8xx-30W-Cover-ERV
LI-T8-MO15-8xx-24W-HO-Cover-ERV
LI-T8-MO15-8xx-30W-HO-Cover-ERV
LI-T8-MO15-8xx-24W-EHO-Cover-ERV
LI-T8-MO15-8xx-30W-EHO-Cover-ERV
LI-T8-MO15-8xx-24W-LC-Cover-ERV
LI-T8-MO15-8xx-30W-LC-Cover-ERV
MO15-8xx-30W-Cover-TGD
T8-MO15-HO-Farbe-23W-Cover-NP
T8-MO15-8xx-22W-Cover-TOW
MO15-8xx-24W- Cover -UTO
MO15-8xx-30W- Cover -UTO

8xx is a placeholder and stands for light colors like 830, 840, 850, 860, 865 etc.

Cover is a placeholder for the different covers: FR ... opal, CL ... clear, PR ... prismatic

Also compatible with **M OLED®-BOX** are all LED tubes from other manufacturers which are suitable for direct mains connection, e.g.

OSRAM:

- **OSRAM SubstiTUBE Value**
- **OSRAM SubstiTUBE Advanced**
- **OSRAM SubstiTUBE Advanced Ultra output**

PHILIPS:

- **Master LEDTube Universal T8**
- **Master LEDTube T8 KVG/VVG**
- **CorePro LEDTube T8 KVG/VVG**