

IP65 LED dust- and moisture-proof luminaire FL7440H2 (48 W)



Operating and Installation Instructions

Art. No. 581071

Please read these instructions carefully before installation and keep them for future reference.

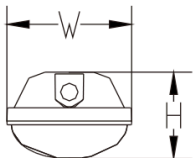
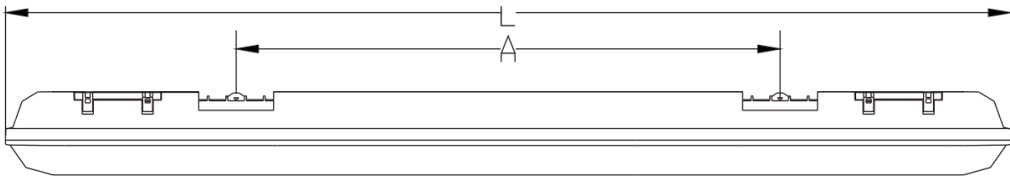
Damage caused by non-observance of these instructions, by improper installation or by improper use is not covered by the warranty. We accept no liability for consequential damage, or for damage to property or personal injury resulting from improper handling or non-observance of the safety instructions. Statutory consumer rights remain unaffected.

Package contents

- 1 × IP65 LED luminaire FL7440H2
- Mounting material: 2 × mounting clips, 4 × wall plugs, 4 × screws
- Operating and installation instructions

Technical data

Model / Art. No.	FL7440H2 / 581071
Rated power	48 W
Luminous flux	5000 lm
Luminous efficacy	104 lm/W
Colour temperature	4000 K (neutral white)
Colour rendering index	Ra ≥ 80
Beam angle	120°
Rated voltage	220–240 V~ AC, 50/60 Hz
Dimmable	No
Light source	LED, built in – not replaceable by the user
Ingress protection	IP65
Protection class	I (protective earth connection required)
Housing material	Polycarbonate
Dimensions L × W × H	1200 × 100 × 68 mm
Mounting hole distance A × B	850 × 40 mm
Rated life	30,000 h (Ta 35 °C)
Supply cable	Round rubber-sheathed cable, Ø approx. 8 mm, e.g. H05RN-F 3 × 1.0 mm ²
Through-wiring	Not provided – the luminaire must not be used to supply further luminaires



Intended use

The FL7440H2 is a luminaire for general lighting indoors and in sheltered outdoor areas, e.g. warehouses, garages, workshops and canopies. It is intended for surface mounting on a closed ceiling.

The luminaire must never be installed or operated in rooms or environments in which explosive or flammable gases, vapours or dusts are or may be present. There is a risk of fire and explosion!

Any use other than that described above may damage the luminaire and is deemed improper use.

The luminaire has been tested in accordance with the applicable harmonised European standards and complies with the relevant EU directives (CE marking).

Safety instructions

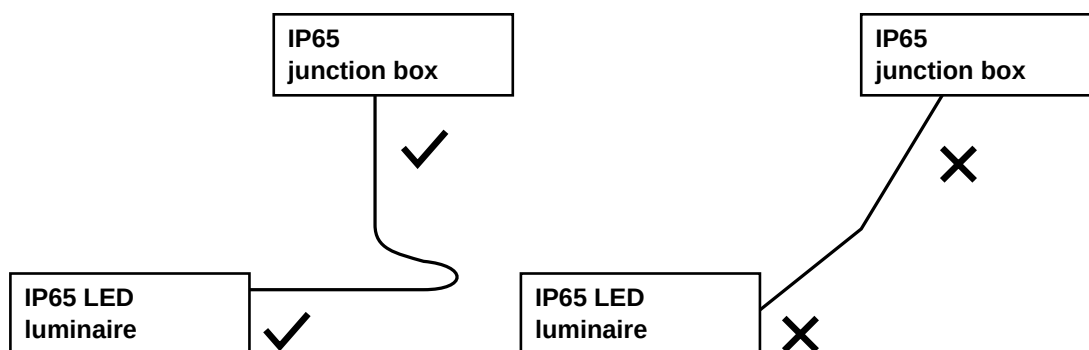
- For reasons of safety and approval (CE), conversion and/or modification of the luminaire is not permitted. Never disassemble the luminaire.
- In case of a fault, disconnect the luminaire from the mains supply! Do not attempt to repair the luminaire yourself. Repairs may only be carried out by a qualified specialist.
- The luminaire is designed for protection class I. The protective conductor (earth) must be connected.
- The luminaire is suitable for outdoor installation (IP65). However, it must not be installed in or under water, or in places where water can accumulate.
- Never look directly into the light of the luminaire. Due to the high light intensity, eye damage is possible.
- Never touch the luminaire while it is switched on!
- Do not expose the luminaire to mechanical stress, strong vibrations, or ambient temperatures above +60 °C or below –20 °C. Outdoors, install it in a sheltered place protected from prolonged direct sunlight.
- In commercial facilities, observe the accident prevention regulations for electrical installations and equipment.
- The luminaire may only be installed and connected by a qualified electrician who is familiar with the relevant regulations.
- This luminaire contains a built-in LED light source. The light source cannot be replaced by the user.
- Improper work on mains voltage endangers not only yourself but also others.

Installation instructions

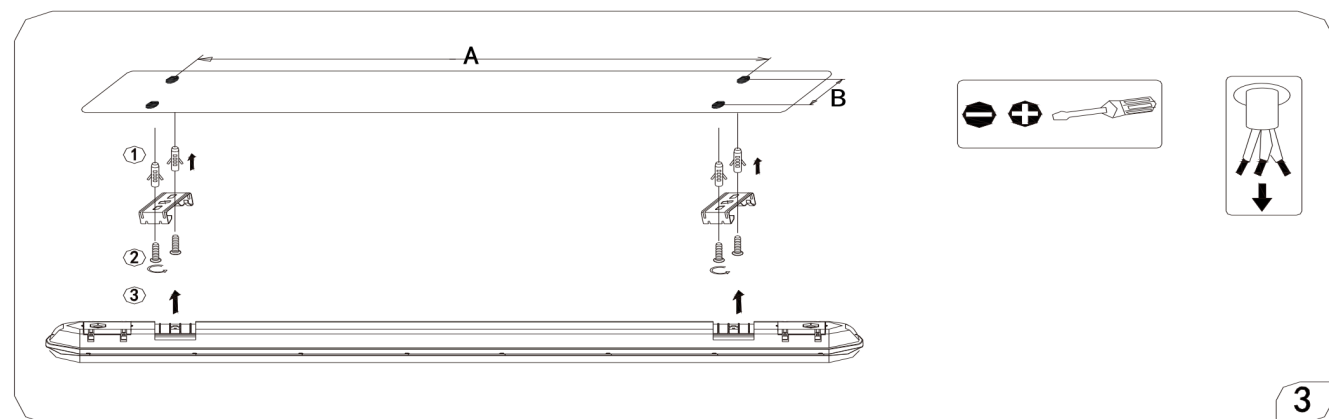
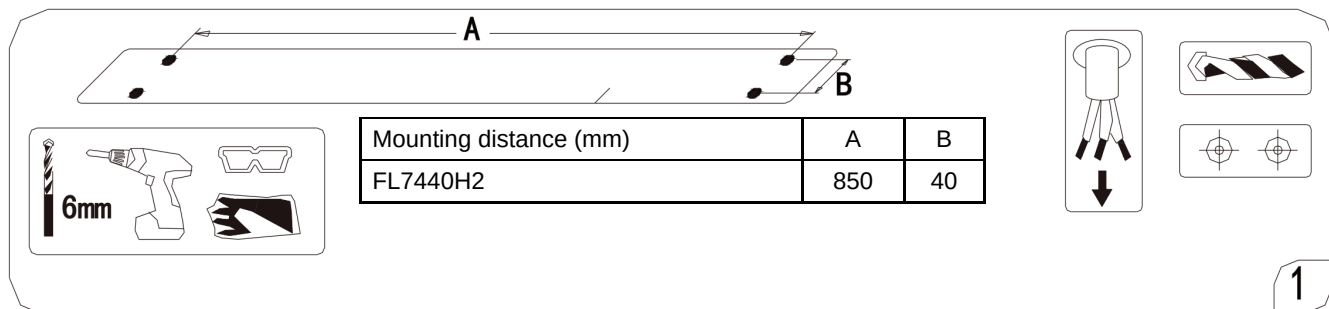
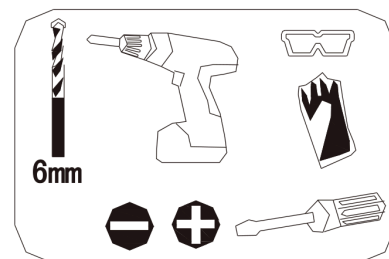
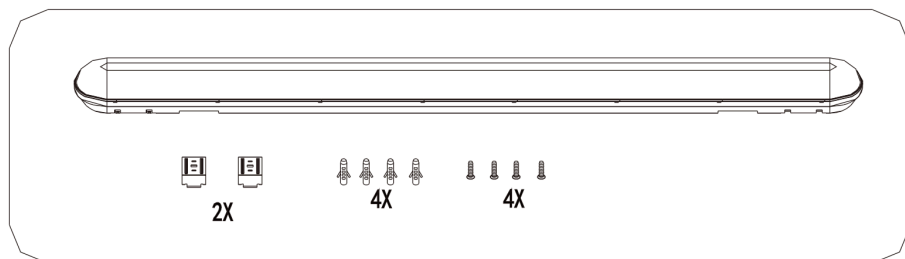
- When installing the luminaire, observe the safety instructions above and the intended use.
- Only mount the luminaire on a stable surface that is suitable for the weight of the luminaire.
- The luminaire must be protected by a 10 A or 16 A circuit breaker (fuse) in the on-site sub-distribution board.
- Installation may only be carried out with the power disconnected! Before installation, switch off the circuit breaker and the associated switch so that the mains cable is completely disconnected from the mains voltage. Secure against reconnection and check that no voltage is present.

Installation

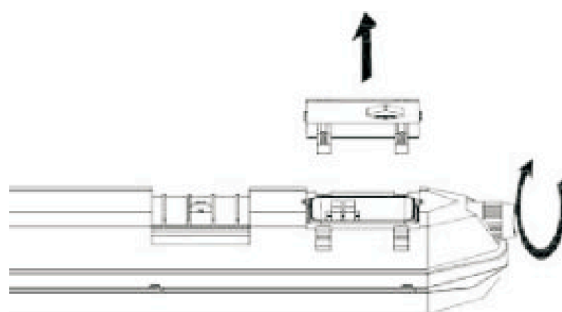
1. An IP65 external junction box must be used to ensure IP65 protection. The cable must leave the junction box and the luminaire in a straight line. If the cable is bent sharply to the side, IP65 protection is not ensured.



Determine the mounting position of the luminaire and fix the supplied mounting clips with the screws provided. If necessary, use wall plugs suitable for the mounting surface (drill Ø 6 mm).



2. Remove the cover over the junction box on the back of the housing and unscrew the locking nut of the cable gland in order to insert the supply cable.



INFORMATION

There are two covers on the back of the luminaire. The terminal block is located under the cover at the cable entry end.

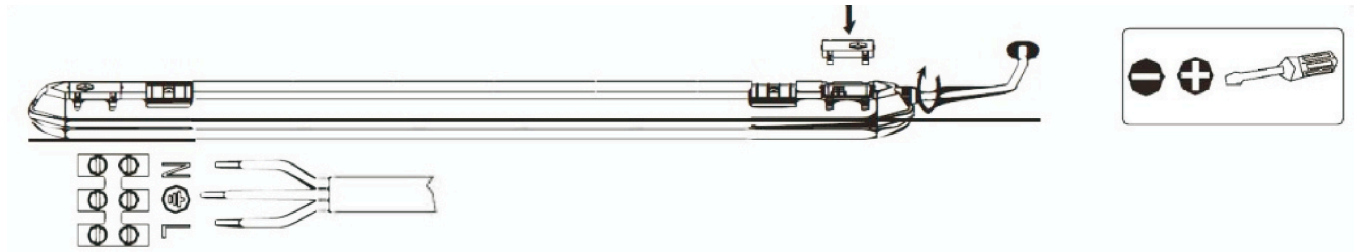
!! ATTENTION !!

Use a round rubber-sheathed cable with a diameter of approx. 8 mm, e.g. H05RN-F 3 × 1.0 mm². Do not use PVC cable! If a thinner cable is used, neither the strain relief nor the sealing is guaranteed.

3. Push the supply cable through the locking nut, then through the rubber seal, and up to the terminals.

4. Connect the mains wires to the terminals: neutral = blue wire to N / phase = brown wire to L / protective conductor (earth) = green-yellow wire to .

The green-yellow wire must be longer than the brown and the blue wire. Do not strip the wires too long (max. 8 mm) so that no short circuit can occur.



!! ATTENTION !!

The protective conductor (earth) must be connected!

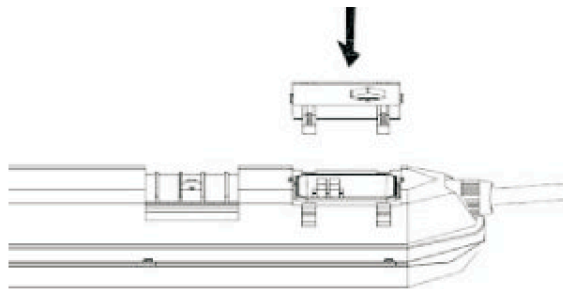
If no protective conductor is available, the luminaire must not be installed – a new mains cable must be laid first. If no protective conductor is connected, mains voltage can reach the metal parts of the luminaire in the event of a fault. Risk of fatal electric shock!

5. Tighten the locking nut with the rubber seal onto the cable gland. This fixes the supply cable in the cable gland (strain relief) and provides protection according to IP65 (sealing).

!! ATTENTION !!

The locking nut must be screwed on completely and tightened with at least 3 Nm to ensure IP65 protection. The installer is responsible for professional installation!

6. Refit the junction box cover tightly to ensure IP65 protection. Make sure that the rubber seal of the housing is not damaged.



7. Attach the luminaire with the connected supply cable to the previously installed mounting clips by pressing the luminaire into the clips until they audibly engage.



Maintenance and care



Before cleaning, switch off the luminaire and disconnect it from the mains voltage (switch off the circuit breaker)!

Apart from occasional cleaning, the luminaire is maintenance-free. Never disassemble the luminaire. Remove dust and dirt from the diffuser from time to time to ensure proper function. Wipe the outside of the luminaire only with a clean, soft, dry cloth; for heavier soiling, the cloth may be slightly moistened with water. Never use aggressive cleaning agents or chemical solutions – they can damage the housing (e.g. discoloration).

Good to know: why can a non-IP65 installation damage the luminaire?

Typical installation faults are:

1. a junction box without IP65 protection is used;
2. the locking nut is tightened with less than 3 Nm;
3. the junction box cover of the luminaire is not refitted tightly;
4. the cable is bent sharply at the outlet of the junction box or the luminaire;
5. an unsuitable (e.g. PVC or too thin) cable is used.

Moisture that enters the luminaire can damage it. When the luminaire is switched off, condensation or water droplets form inside the optics. At first the light changes (parts of the luminaire may remain dark); later, short circuits and corrosion of the electronics cause permanent damage.

For an IP65 installation to be really watertight, all components must be IP65: the luminaire, the junction box and any external control devices. One entry point is often overlooked – the open end of the supply cable. When switched on, the luminaire heats up and the air inside expands; even through the smallest leak the air escapes. When the luminaire is switched off, it cools down, the air contracts and moist air is sucked in – also along the inside of the cable from its far end (pump effect). The moisture then condenses inside the luminaire.

Disposal



Waste electrical and electronic equipment must not be disposed of with household waste. At the end of its service life, dispose of the luminaire in accordance with the applicable legal regulations (e.g. at a municipal collection point for electrical waste). Ask your local authority or your retailer for advice.

Manufacturer and importer:

Kaito-Hungary Kft.

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