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OGL1 1060 LH

Safety instructions



Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

Fire hazard. Do not connect any other consumers apart from the LED luminaires of type OGL1 1060 LH (Version 01) to the output line.

Danger of destruction. For brightness control use only dimmers, that are approved for operation with this LED product (dimmer compatibility list see www.instalighting.de)

Do not use luminaire to illuminate workstations with rotating machine parts.

The connecting cable is not exchangeable. If the connecting cable is damaged, replace the entire luminaire.

Connectors must not permanently remain underwater. For permanent de-watering of the mounting frame a drainage shall be provided on site.

The static pressure load applied on the luminaire must not exceed 30 kN.

Do not bend LED luminaire. This can cause damage.

The lamp must not be traversed with a plate vibrator.

Risk of galvanic corrosion in stainless steel. Contact of the product with less noble metals, abraded iron, external corrosion and aggressive media must be avoided.

These instructions are an integral part of the product, and must remain with the end customer.

Device components

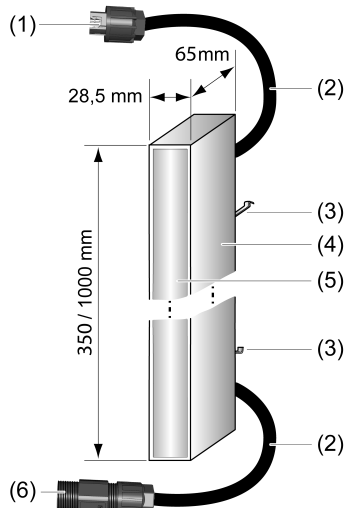


Figure 1

- (1) Plug connector input (IP67)
- (2) Connecting cable
- (3) Retaining springs
- (4) Luminaire body (IP68, 2 m)
- (5) Light output
- (6) Plug connector output (IP67)

Function

Intended use

- Linear in-ground luminaire
- Mounting indoors in the floor
- Mounting outdoors in walkways, parking lots and driveways
- Mounting only with matching installation frame (see accessories)
- Direct connection to AC 230 V~ mains
- Dimmable via conventional dimmers, that are designed for LED loads (listing of compatible dimmers see www.instalighting.de)

Only install luminaire and frame fitting together as a pair of equal length. Place only one luminaire per mounting frame.

Not approved for use in public traffic roads, highways and other areas, where the frame is subjected to horizontal forces produced by vehicles (acceleration, braking or driving direction changes).

Available light colours and beam angles see current data sheet at www.instalighting.de

In swimming pools, only a special type of the lamp can be used. Contact Instalighting GmbH for further information.

Lamps

Maintenance free high-performance LED lamp with integrated power supply unit. The lamp cannot be replaced.

Information for electrically skilled persons

Mounting the luminaire

The mounting frame (7) has already been installed on a suitable foundation.

- Observe the linear thermal expansion. At a temperature difference of 60 °C, the stainless steel material used is subject to linear thermal expansion in the order of approx. 1 mm per meter. Provide for adequately dimensioned expansion joints between the frame elements during fitting.
- Risk of damage to the connecting cable when fitting the luminaire. A damaged connecting cable can result in a short-circuit. Be careful when routing the cables inside the mounting frame.
- The installed luminaire exceeds the upper edge of the frame by 5 mm (Figure 2). The upper edge of the floor after finishing must therefore also exceed the frame by 5 mm.
- Place the connecting cable (2) carefully in the groove of supporting strip (8).
- Insert the floor lamp (4) straight into the mounting frame.
- Press the luminaire down until it comes to rest on the supporting strip (8) and until the retaining springs (3) have engaged.

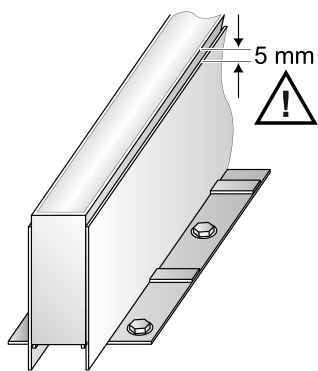


Figure 2: Installed luminaire

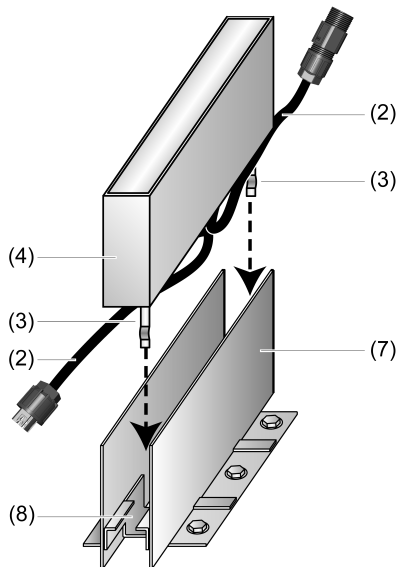


Figure 3: Mounting the luminaire (outer retaining springs)

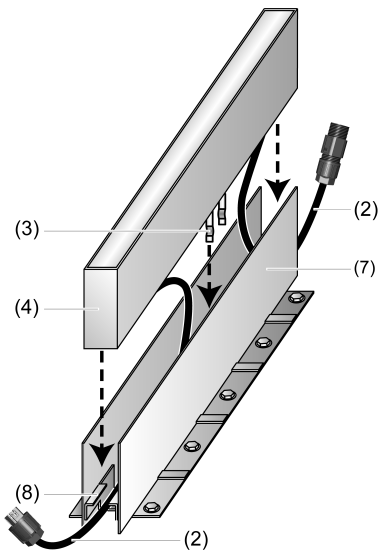


Figure 4: Mounting the luminaire (inner retaining springs)

Connecting luminaire – General notes



DANGER!

Electrical shock when live parts are touched.

Electrical shocks can be fatal.

Before connecting the luminaires, disconnect the supply line.

- Do not insert connector under load! This will cause destruction of the contacts.
- The power circuit of the supply line must be equipped with a residual current protective device (RCD).
- Observe the maximum number of LED luminaires per chain and circuit (see dimensioning).
- Connect the LED luminaires according to the circuit diagram.

Connection assignment

Wire colour	Connection
Blue (BU)	Neutral conductor (N)
Brown (BN)	Phase conductor (L)

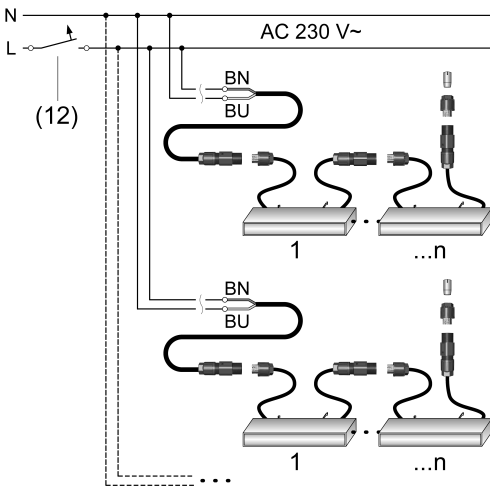


Figure 5: Circuit diagram

(12) Circuit breaker

One "connection set 50909900" per LED luminaire chain is required for the electrical connection.

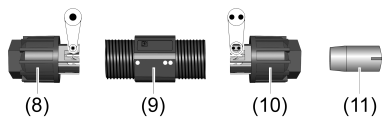


Figure 6: Connection set 50909900

- (8) Union nut (Input)
- (9) Insulator

- (10) Unit nut (Output)
- (11) Sealing plug

Dimensioning

The following table shows the maximum number of LED luminaires per chain and circuit according to the circuit breaker used. All values apply to a supply line of 10 meters (1.5 mm²) and a direct linking of the individual luminaires.

Dimensioning according to the circuit breaker used (without switch-on current limiter)

Miniature circuit breaker (12)	LED luminaires per chain	LED luminaires, total
B10	13 m	13 m
C10	18 m	20 m
D10	7.5 m	44 m
B16	20.5 m	20.5 m
C16	10 m	35 m
D16	4.5 m	70 m

- In case of operation on a dimmer, the chain lengths listed above can be limited by the maximum dimmer load (see "Dimmer connection").
- We recommend using a "B16" circuit breaker together with one or more switch-on current limiters for the maximum chain length and, at the same time, as many LED luminaires are possible per circuit.

Linking LED luminaires

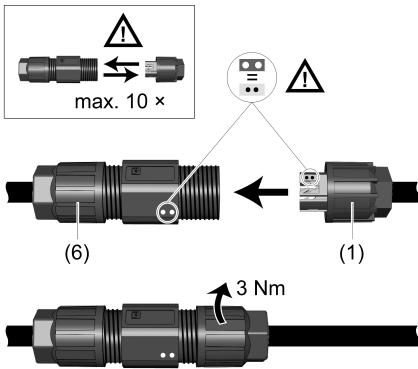


Figure 7: Linking LED luminaires

- Connect the floor lamps with one another using the IP67 connectors (1/6). When doing so, pay attention to the correct encoding of the connector: Output cable of the previous and input cable of the next luminaire are each marked with two points.
- Tighten union nut at a tightening torque of 3 Nm.
- The connectors can be re-connected a maximum of 10 times. Since the contact is made by means of IDC technology, the single conductors that have already been contacted once must be cut off for each new plug-in process and re-threaded into the union nut. This process is identical with the connection of the supply line (Figure 9).

Dimmer connection

The luminaires can be operated via conventional dimmers on the primary side. In doing so the following conditions must be fulfilled:

- Use only dimmers, that are approved for operation with LED products of type "OGL1 1060 LH" (version 01).
- Current listing of compatible dimmers see www.instalighting.de.
- Always set the dimmer to operating mode "trailing edge phase control". On dimmers with special LED operating modes, this mode is commonly signed with the symbol LED
- Observe the maximum load related to the chosen dimmer (can differ from the data listed under "Dimensioning").
- Do not underrun the specified minimum brightness. This will cause flickering of the light inserts. If possible, store the minimum brightness inside the dimmer to the recommended value.

Sealing output cable of the last LED luminaire

Precondition: No additional luminaires need be connected to the chain anymore.

To prevent the penetration of moisture, the output cable of the last LED luminaire of a chain must be sealed with a sealing plug.

To seal the output cable, use a sealing plug (11) and union nut (10) with two-point marking from the connection set (Figure 6).

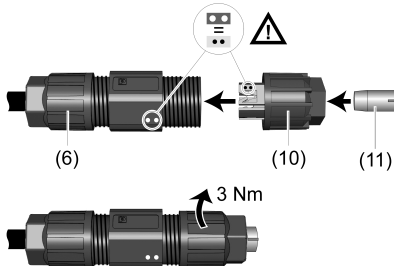


Figure 8: Sealing output cable

- Insert a sealing plug (11) into the back of the union nut (10).
- Screw union nut onto the output cable of the LED luminaire. When doing so, pay attention to the correct encoding of the connector: Output cable of the LED luminaire and union nut from the connection set are marked with two points.
- Tighten union nut at a tightening torque of 3 Nm.

Connecting the first LED luminaire to the supply line

Precondition: The output cable of the last luminaire is sealed with a sealing plug.

To connect the supply line, use an insulator (9) and union nut (8) with one-point marking from the connection set (Figure 6).

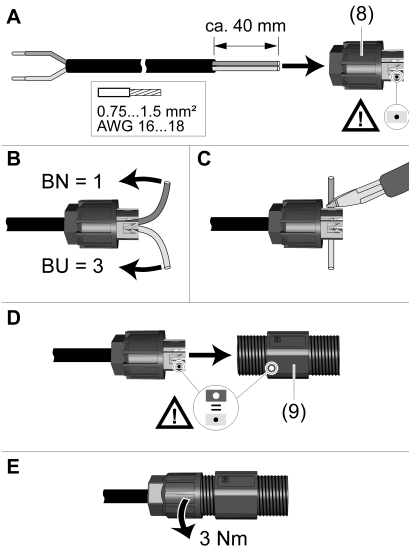


Figure 9: Connecting the supply line

- A: Strip on-site supply line approx. 40 mm. Do not insulate individual conductors!
- B: Thread individual conductors into the union nut (8) and snap them into place in the plastic clips. When doing so, pay attention to the correct encoding of the connector: Input cable of the LED luminaire and union nut from the connection set are each marked with a single point.
- C: Cut off any protruding wire ends flush using a cable cutter.
- D: Tighten union nut at a tightening torque of 3 Nm.
- Connect the first luminaire of the chain to the supply line (see "Linking LED luminaires").

Technical data

Rated voltage	AC 230 V~
Mains frequency	50 Hz
Power consumption per metre	approx. 10 W
Power factor	0.52 ... 0.6
Protection class	II
Degree of protection, luminaire housing	IP68 (2 m)
Degree of protection Plug connector	IP 67

Ambient temperature -20 ... +50 °C
Storage/transport temperature -25 ... +60 °C
Static pressure load 30 kN (DIN EN60598-2-13)

Accessories

Connection set IP67 OGL1 1060 ZL 01
Mounting frame, 350x125mm OGL1 1060 F 350x125
Mounting frame, 1000x125mm OGL1 1060 F 1000x125
Removal tool OGL1 1060 ZM 01

Warranty

We reserve the right to make technical and formal changes to the product in the interest of technical progress.

We provide a warranty as provided for by law.

Please send the unit postage-free with a description of the defect to our central customer service office:

Instalighting GmbH
Hohe Steinert 10
58509 Lüdenscheid
Germany