



WE-EF LEUCHTEN Installation and Maintenance Instructions

Projector
Spigot mounted
FLC301
FLC311
FLC321



Do not open during installation

This product is factory-sealed. Refer to the instructions contained in this document for details.



Surge Protection

This product features built-in surge protection circuitry in compliance with applicable standards.

For comprehensive protection of a luminaire installation against lightning and electrical surges, it is essential to cover mains supply and data input lines at the distribution board level, by using respective primary (Type 1) and secondary (Type 2) surge arrestors in compliance with EN61643-11/ IEC61643-1.



Installation tools

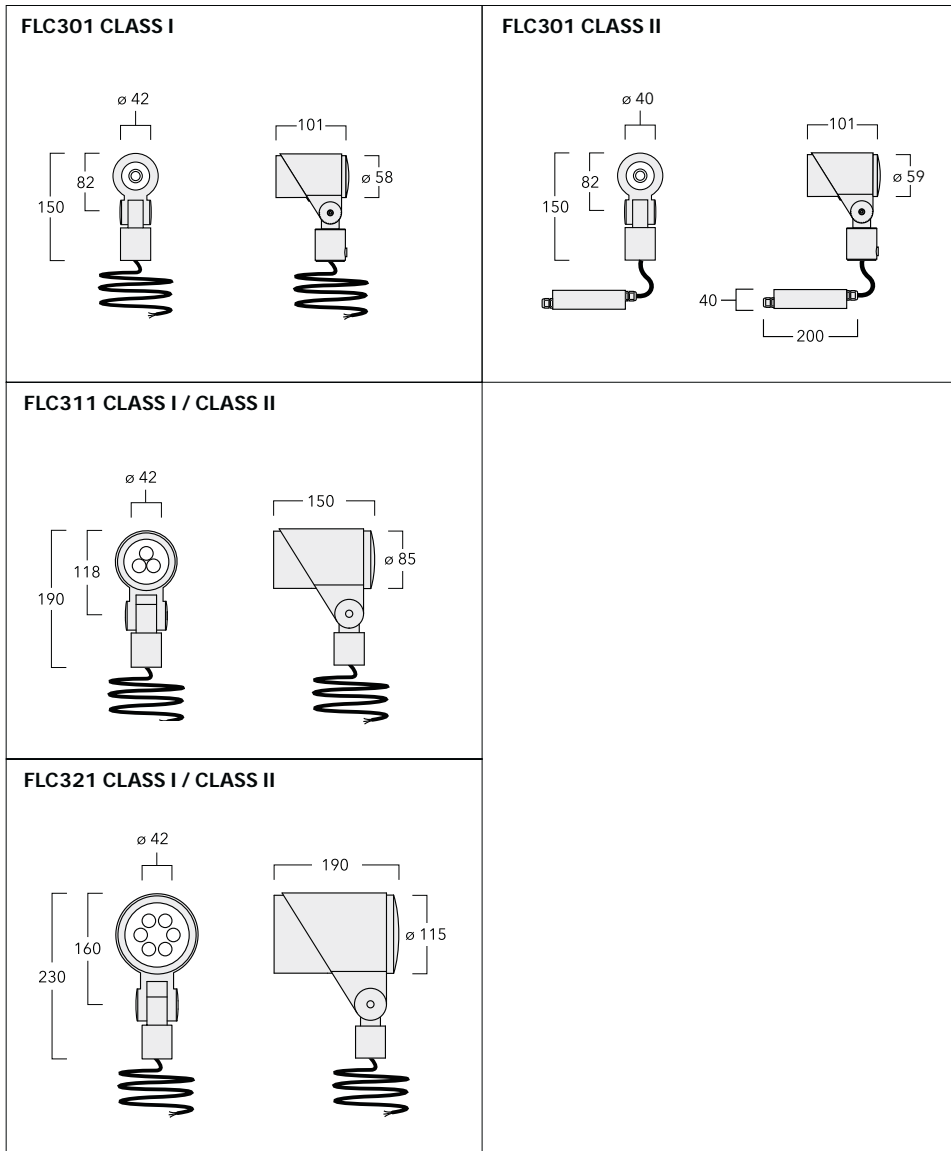
Mounting hardware used on this product includes fasteners with hexalobular socket heads (ISO 10664). Installation requires the use of matching tools.

Warning

Ensure that all required surge protection measures are in place and activated prior to luminaire installation. Also, disconnect luminaires before operating high-power devices such as, for example, electrical arc welders.

Projector

Spigot mounted



IP66, IK08. Class I. $T_a = 40^\circ\text{C}$

Weight	kg
for FLC301 Spigot mounted	0.7
for FLC311 Spigot mounted	1.6
for FLC321 Spigot mounted	2.6

Light Source

LED

Maintenance

Apart from cleaning the product's exterior surfaces, no special maintenance work is required.

Do not use high-pressure cleaners.

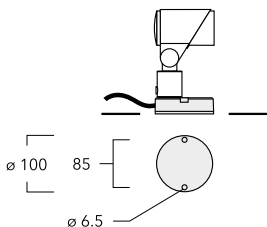
In case of component failure due to abnormal circumstances or at end of life, replacement must be carried out by a suitably qualified and trained professional.

Warning: Do not open luminaire while mains supply is switched on.

Mounting Accessories

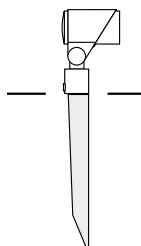
Flat surface fitter

SF-FLC1 for FLC301 Spigot mounted **145-9535**



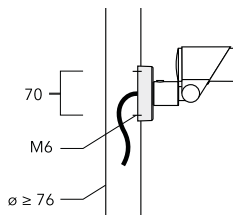
Ground spike

EF1 for FLC301 Spigot mounted **310-9102**



Column fitter

CF-FLC1 for FLC301 Spigot mounted **145-9536**

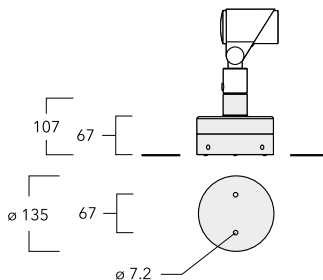


Junction box

JB1 with side entry (cable) **310-9002**

JB1 with side entry (conduit) **310-9022**

JB1 with wall entry **310-9025**



Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

The product has to be installed and used only in combination with original WE-EF mounting accessory. Use of the luminaire alone or installation without original WE-EF mounting accessory is not permitted. For more information on accessories, please contact your local sales representative.

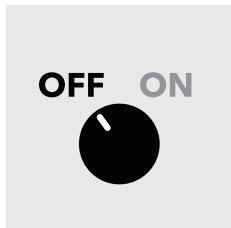
Warning: Switch off mains electrical supply prior to installing and connecting the luminaire.

Notice: If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/organisation. Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

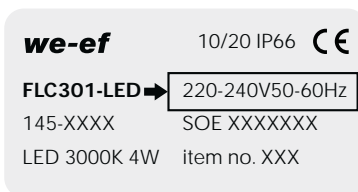
The installation on site must comply with local and/or national health and safety regulations.

Installation Procedure

- 1) Switch off mains electrical supply.

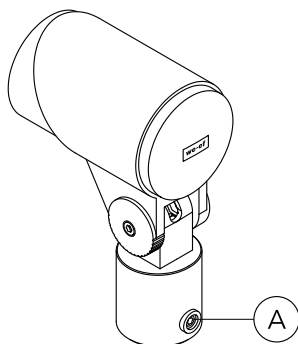


- 2) Check that rating shown on luminaire label conforms with mains electrical supply.



(example)

- 3) Loosen screw **A**.

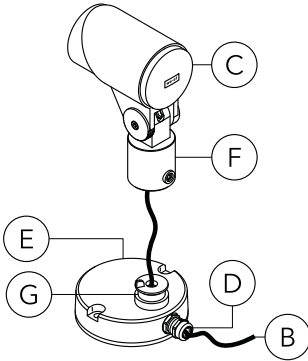


- 4) Place luminaire on one of the following mounting accessories.

Mounting accessory installation instruction is available in additional document, TO9253W.

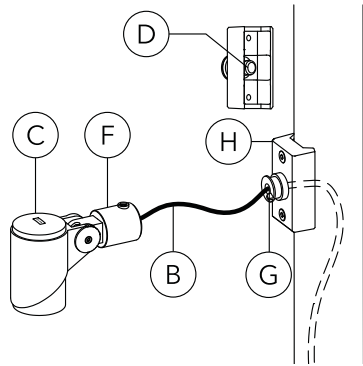
Flat surface fitter

- 4.1) Prior to installation of surface fitter, feed cable **B** from luminaire **C** through pivot **G** and cable gland **D** of surface fitter **E**. Slide slipfitter **F** over pivot.



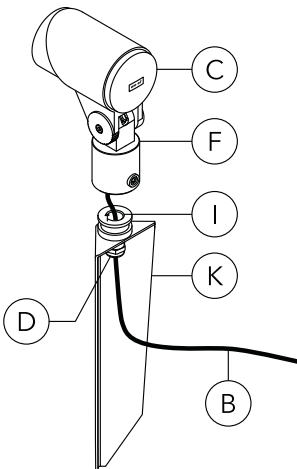
Column fitter

- 4.2) Prior to installation of column fitter, feed cable **B** from luminaire **C** through pivot, cable entry **G** and cable gland **D** of column fitter **H**. Slide slipfitter **F** over pivot.



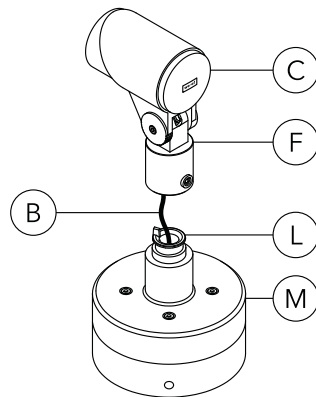
Ground spike

- 4.3) Feed cable **B** from luminaire **C** through pivot **I** and cable gland **D** of ground spike **K**. Slide slipfitter **F** over pivot.

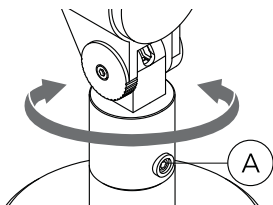


Junction box

- 4.4) Feed cable **B** from luminaire **C** through pivot and cable entry **L** of junction box **M**. Slide slipfitter **F** over pivot.

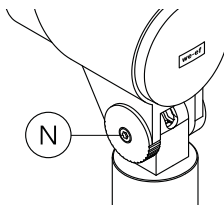


- 5) Turn luminaire towards object to be illuminated. Ensure slipfitter is properly seated on pivot, then tighten screw **A**.



- 6) Loosen screw **N**. Aim luminaire in desired direction and tighten screw **N**.

For flat surface fitter, column fitter and ground spike: Tighten cable gland **D**.



- 7.1) Connect mains supply cable leads to respective terminals in terminal connector **C** for **CLASS I**:

For **FLC301**

- a) ON-OFF (L = Phase, N = Neutral, \oplus = Earthing)
- b) ON/OFF 24VDC (+ = positive pole, - = negative pole)
- c) DALI 24VDC (+ = positive pole, - = negative pole, DA/DA = DALI control line)

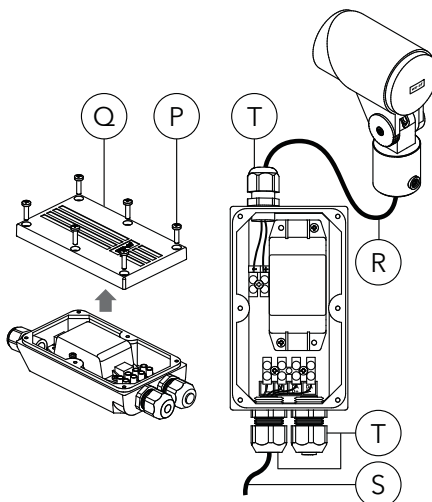
For **FLC311/321**

- a) ON-OFF (L = Phase, N = Neutral, \oplus = Earthing)
- b) 0-10V 24VDC (+ = positive pole, - = negative pole, D-/D+ = 0-10V control line)
- c) 1-10V/DALI (L = Phase, N = Neutral, \oplus = Earthing, DA/DA = DALI control line, D-/D+ = 1-10V control line)

- 7.2) Connect mains supply cable leads to respective terminals for **CLASS II**:

For **FLC301**

Loosen screws **P** and remove gear box cover **Q**. Connect luminaire cable **R** leads and main supply cable **S** leads (and second main supply cable leads for through wiring, if required) to respective terminals inside the gear box (L = Phase, N = Neutral, DA/DA = DALI control line, + = luminaire +, - = luminaire -) Tighten cable glands **T**.



7.2) (Continue)

For **FLC311/321**

Connect mains supply cable leads to the provided separate connector as shown in fig. 1 to fig 4

Note that **CLASS II** luminaires are not equipped with PE wire and must not be connected to PE.

(1 = Phase, 2 = DA+, 3 = Neutral, 4 = DA-)



fig. 1



fig. 2



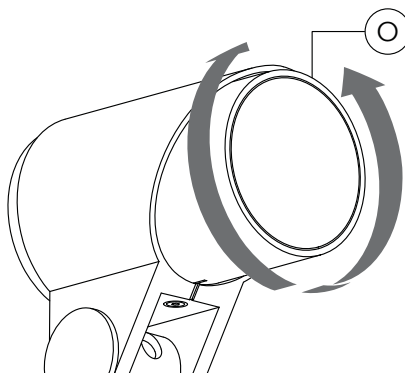
fig. 3



fig. 4

7.3) Operation with 24VDC is only permitted with a SELV power supply suited for **Class III** appliances.

8) For accessory Linear Spread Lens IO-180:
Turn frame **O** to set desired orientation of light.



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Technical specifications are
subject to change.

WE-EF LEUCHTEN

Installation and Maintenance
Instructions

Accessories

Flat surface fitter
Ground Spike
Column fitter
Junction box



Do not open during installation

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in this document for details.



Surge Protection

This product features built-in surge protection circuitry in compliance
with applicable standards.

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and electrical surges, it is essential to cover mains supply and data input
lines at the distribution board level, by using respective primary (Type 1)
and secondary (Type 2) surge arrestors in compliance with EN61643-11/
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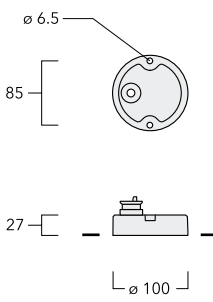
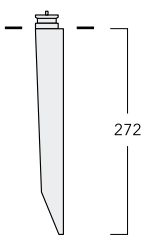
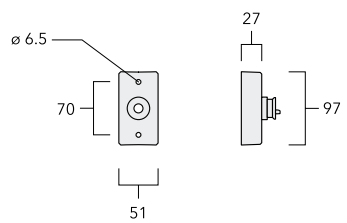
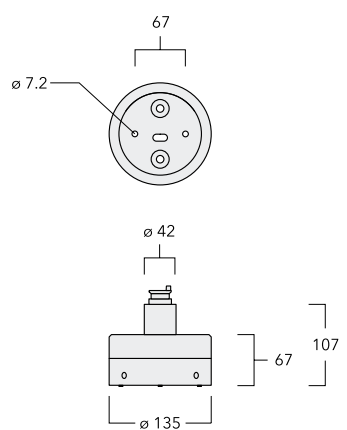
Warning

Ensure that all required surge protection measures are in place and
activated prior to luminaire installation. Also, disconnect luminaires
before operating high-power devices such as, for example, electrical
arc welders.

Accessories

Suitability

1. FLB100 Spigot mounted
2. FLC300 Spigot mounted
3. FLD100 Spigot mounted

<p>Flat surface fitter 145-9535</p>  <p>Technical drawing of the Flat surface fitter 145-9535. The top view shows a circular component with a diameter of 100 mm and a hole of diameter 6.5 mm. A side view shows a height of 27 mm. A dimension of 85 mm is also indicated.</p>	<p>Ground spike 310-9102</p>  <p>Technical drawing of the Ground spike 310-9102. It shows a tapered metal spike with a height of 272 mm.</p>
<p>Column fitter 145-9536</p>  <p>Technical drawing of the Column fitter 145-9536. The top view shows a rectangular component with a diameter of 51 mm and a hole of diameter 6.5 mm. A side view shows a height of 27 mm and a total height of 97 mm.</p>	<p>Junction box (Side entry - cable) 310-9002 Junction box (Side entry - conduit) 310-9022 Junction box (Wall entry) 310-9025</p>  <p>Technical drawing of the Junction boxes 310-9002, 310-9022, and 310-9025. The top view shows a circular component with a diameter of 7.2 mm and a hole of diameter 6.7 mm. A side view shows a diameter of 42 mm, a height of 67 mm, and a total height of 107 mm.</p>

Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

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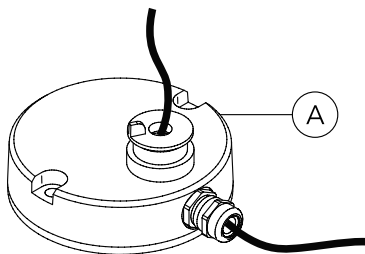
Installation instruction of each luminaire will be separated document.

The installation on site must comply with local and/or national health and safety regulations.

Installation Procedure

Flat surface fitter

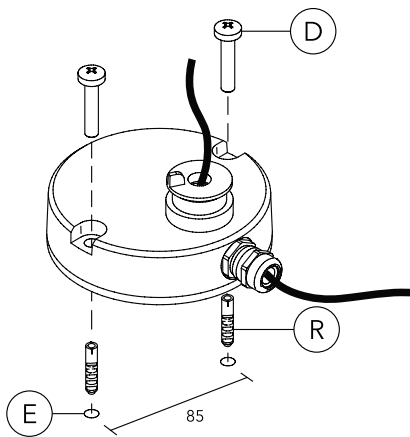
- 1) Feed cable from luminaire through pivot and cable gland of flat surface fitter **A**.



- 2) Determine position for fixing screws **D***.
Drill relevant holes **E** and insert nylon plugs **R***.
Insert and tighten screws **D**. After installation of luminaire, tighten cable gland.

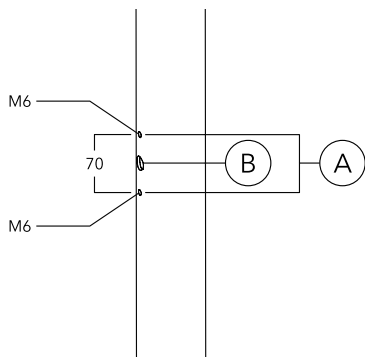
Warning: Ensure not to damage any electrical cable, water pipe or other items drilling holes.

* Not supplied by WE-EF

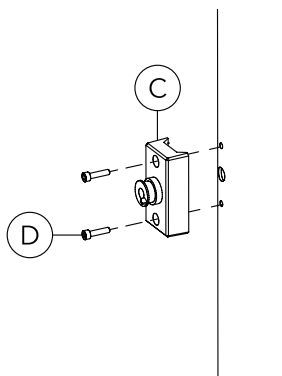


Column fitter

- 1) Drill screw holes **A** and cable entry hole **B** in column. Ensure cable entry hole **B** has sufficient diameter to feed cable from luminaire.



- 2) Set and fix column fitter **C** in position.
Insert and tighten screws **D**.

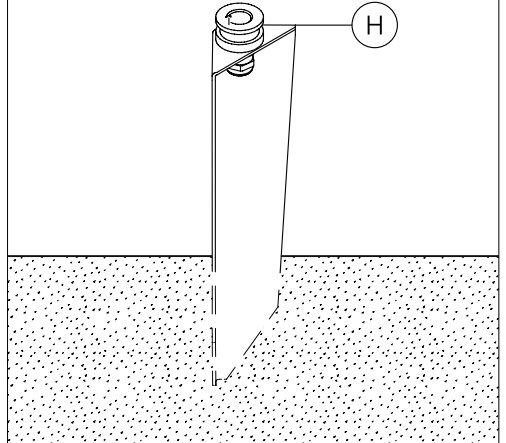


Ground Spike

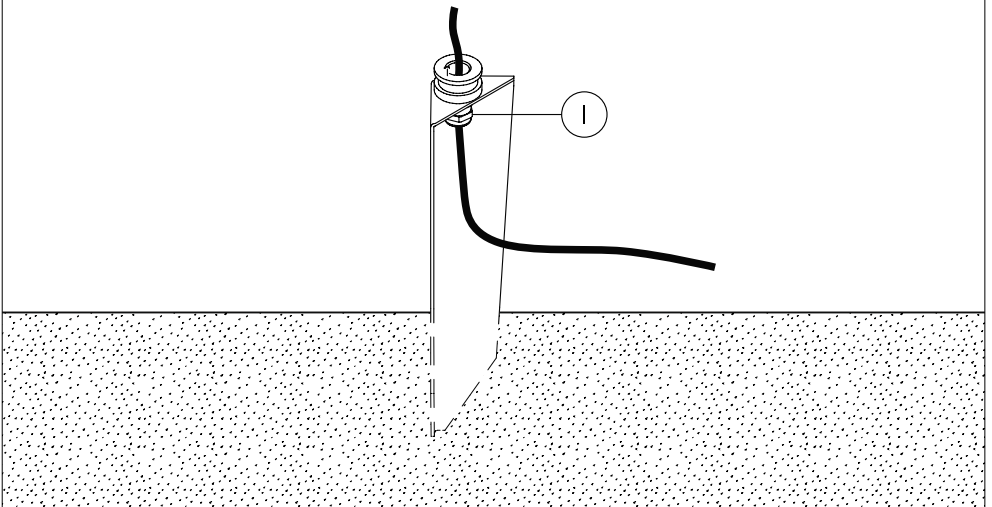
- 1) **Note:** It is the responsibility to installer to ensure the suitability of the ground spike for site-specific conditions.



- 2) Place ground spike **H** into the ground.

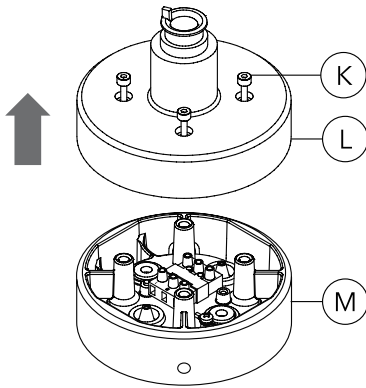


- 3) Feed cable from luminaire through pivot and cable gland **I**. After installation of luminaire, tighten cable gland **I**.

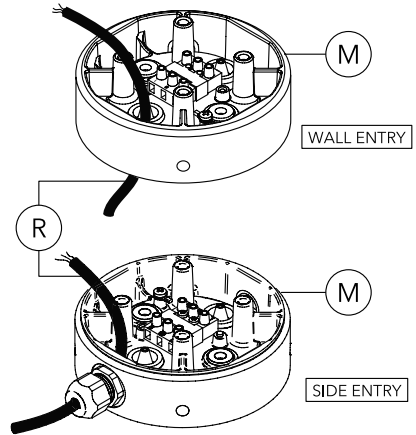


Junction box

- 1) Loosen screws **K** and remove cover **L** from body **M**.

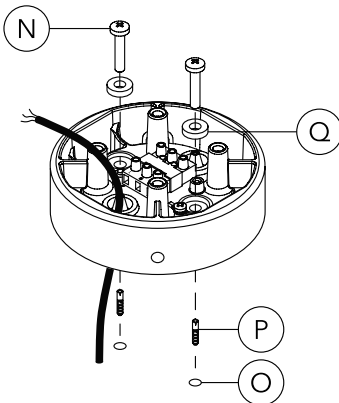


- 2) Feed main supply cable **R** through wall entry or side entry of body **M**.

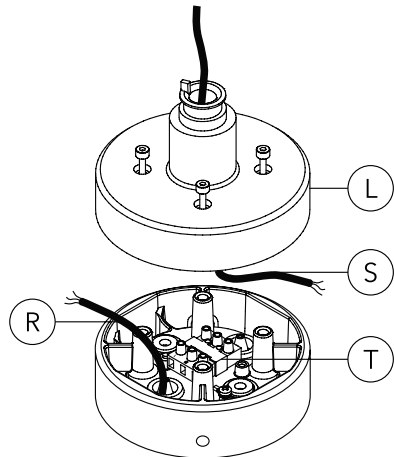


For side entry installations, replace the pre-installed plugs with provided cable glands as required.

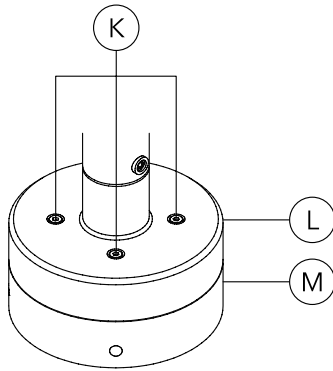
- 3) Determine position for fixing screws **N***.
Drill relevant holes **O** and insert nylon plugs **P***.
Insert screws **N** with washers **Q** and tighten.
Warning: Ensure not to damage any electrical cable, water pipe or other items drilling holes.
* Not supplied by WE-EF



- 4) Feed cable **S** from luminaire through pivot of cover **L**. Connect cable **R** and **S** to terminal block **T** according to wiring shown in separate luminaire installation instruction.



5) After installation of luminaire, place cover **L** on body **M** and tighten screws **K**.



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