

WE-EF LEUCHTEN

Installation and Maintenance
Instructions

Projector

Surface mounted

FLC301

FLC311

FLC321



Do not open during installation

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



Installation tools

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



Surge Protection

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

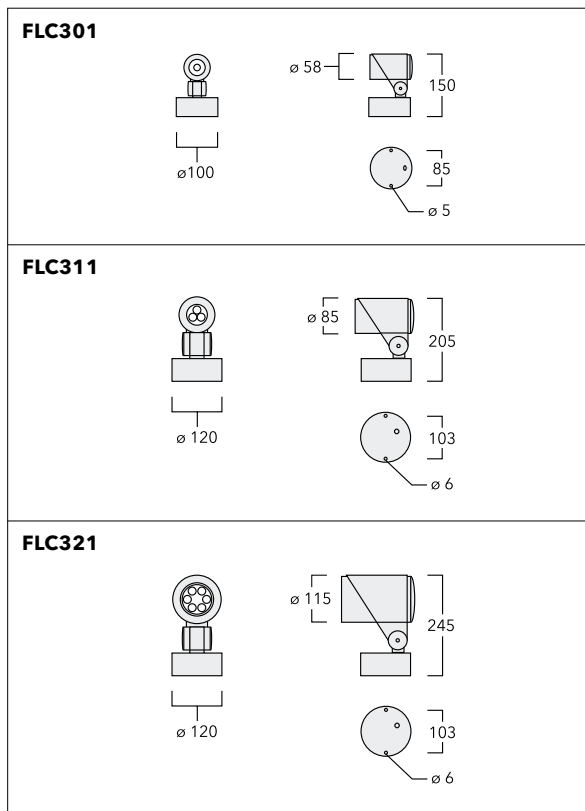
For comprehensive protection of a luminaire installation against lightning
and electrical surges, it is essential to cover mains supply and data input
lines at the distribution board level, by using respective primary (Type 1)
and secondary (Type 2) surge arrestors in compliance with EN61643-11/
IEC61643-1.

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

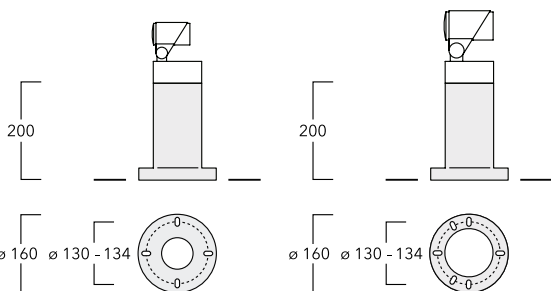
Surface mounted



IP66, IK08. Class I. T_a = 40°C

Weight

	kg
for FLC301 Surface mounted	0.8
for FLC311 Surface mounted	2.2
for FLC321 Surface mounted	3.1



Mounting Accessories

Short post

EM1 for FLC301 Surface mounted	145-9200
EM1 for FLC311 Surface mounted	146-7169
EM1 for FLC321 Surface mounted	146-7169

for FLC301

for FLC311/321

Installation instruction is available in additional document, TO9221W

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.

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.

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.

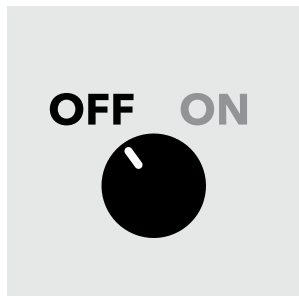
Important: When mounting luminaires on concrete or surfaces containing limestone content, WE-EF recommends using mounting accessories - a short post or a ground spike to prevent galvanic corrosion. In areas where mounting accessories are not applicable, ensure the luminaire's aluminium base is separated from concrete and limestone using a plastic or rubber sheet. Allow concrete to cure before installation - DO NOT INSTALL ON WET CONCRETE!

Handling: Ensure the mounting flange plates are handled with care, scratches and damage to the coated surface can result in galvanic corrosion.

A WE-EF warranty does not cover any adverse reaction or damage, due to improper installation and requests that our recommendations are followed.

Installation Procedure

- 1) Switch off mains electrical supply.



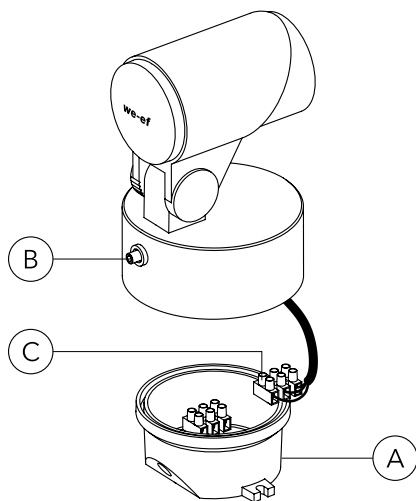
- 2) Check that rating shown on luminaire label conforms with mains electrical supply.

we-ef	07/20 IP66 CE
FLC301-LED →	220-240V/50-60 Hz
145-XXXX	SOE XXXXXXXX
LED 3000K 12W	item no. XXX

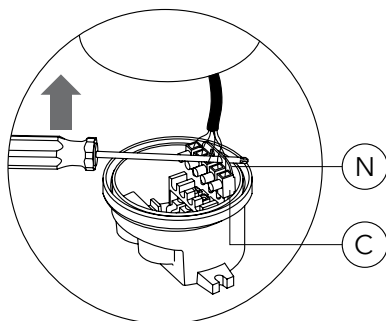
(example)

- 3) Remove mounting flange **A** by loosening screw **B** (Torx T-20, not supplied by WE-EF). Detach terminal connector **C**.

For **FLC311** and **FLC321**, insert a screw driver into terminal holder **N** in order to detach terminal connector **C**.



FLC301

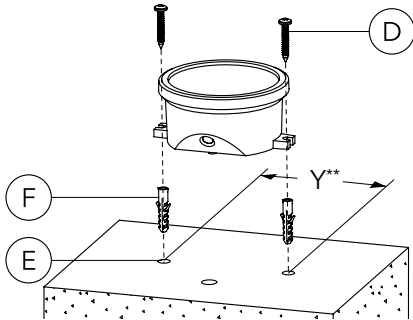


FLC311/FLC321

- 4) Determine position for ST4.2 fixing screws **D***.
Drill relevant holes **E** and insert wall plugs **F***.

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

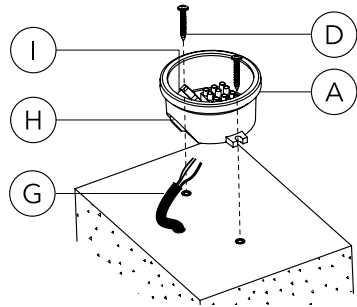
*not supplied by WE-EF



**Y = 85 mm for FLC301

**Y = 103 mm for FLC311/321

- 5) Feed mains supply cable **G** through the pressure screw **I**, while setting mounting flange **A** in position. To fix mounting flange **A**, insert and tighten screws **D**. The pre-installed packing ring **H** is suitable for cable diameters 7 to 9.5 mm. For larger cable diameters (9 to 12 mm) use the auxiliary packing ring supplied. Then tighten the pressure screw **I**.



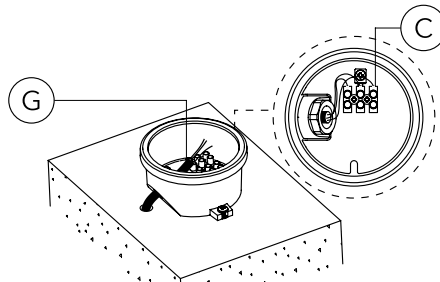
- 6) Connect mains supply cable **G** leads to respective terminals in terminal connector **C**:

For **FLC301**

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

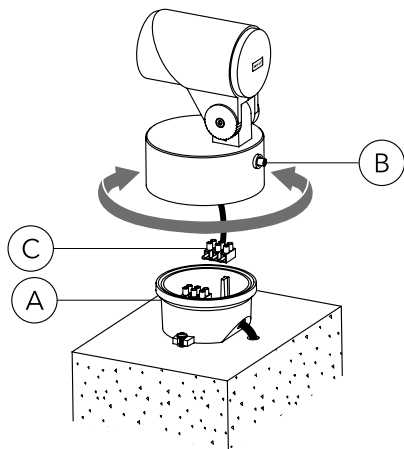
For **FLC311/321**

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

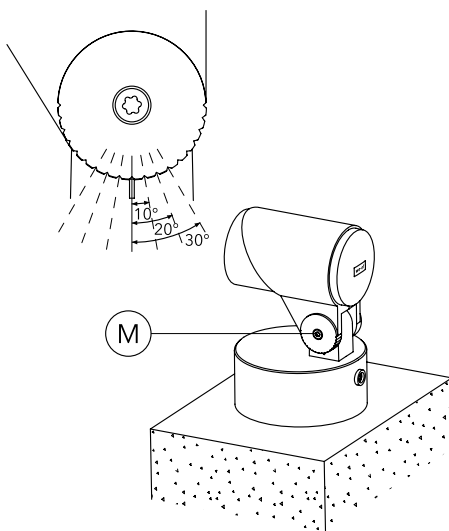


Operation with 24VDC is only permitted with a SELV power supply suited for Class III appliances.

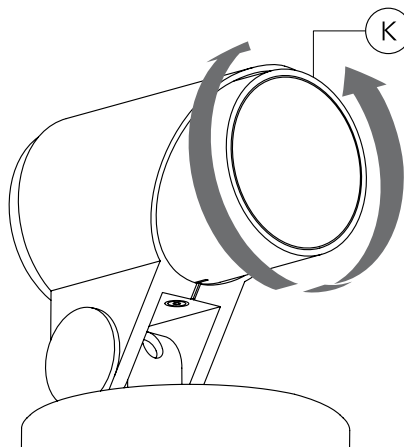
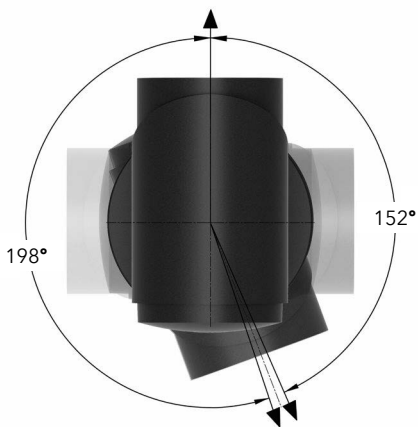
- 7) Ensure that all surfaces are clean and dry. Attach terminal connector **C** and position luminaire over mounting flange **A**. Turn luminaire towards object to be illuminated. Tighten screw **B**.



- 8) Loosen screw **M** slightly by torx T-20 (not supplied by WE-EF). Aim luminaire in desired direction, retighten screw **M**.



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



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Technical specifications are
subject to change.

WE-EF LEUCHTEN

Installation and Maintenance
Instructions

Accessory

Short post

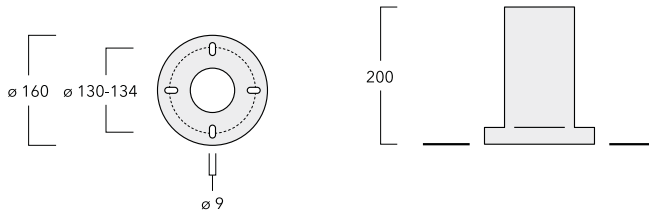


Accessories

Suitability

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

Short post



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 EM1-2 short post can be mounted either to a planted root or to an anchor bolt assembly secured in a cast concrete foundation. It is assumed that the mounting option chosen has been designed and constructed to satisfy prevailing load, location and soil type conditions, and is ready to receive the EM1-2 short post.

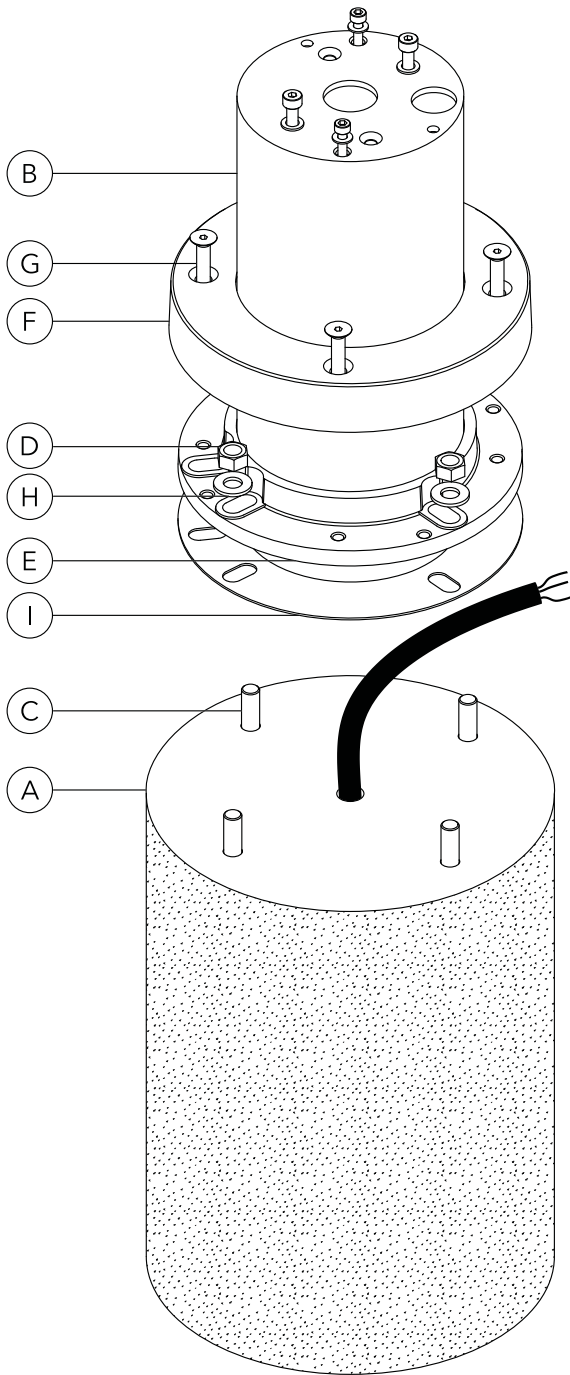
Warning: Switch off mains electrical supply prior to installing and connecting the luminaire.

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

Installation Procedure

- 1) Ensure mounting surface **A** is clean and free of debris.
- 2) Ensure anchor bolts **C** suit hole pattern in short post's flange plate **E** and feature appropriate, levelled protrusion from surface **A**.
- 3) Place rubber patch **I** on mounting surface **A**.
- 4) Mount short post **B**. Adjust nuts **D** and washers **H** on anchor bolts **C** and ensure the short post **B** is perpendicular to the ground.
- 5) Secure cover **F** by tightening cover screws **G** to the flange plate.



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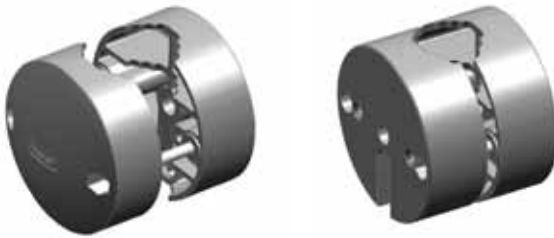
WE-EF LEUCHTEN

Installation and Maintenance
Instructions

Pole clamp

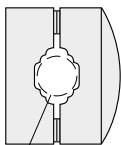
SP1

SP2



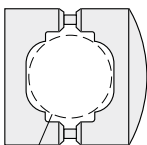
Pole clamp

SP1



\varnothing 38-60

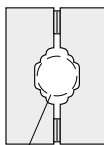
146-7201 SP1-M5 \varnothing 38-60



\varnothing 76-89

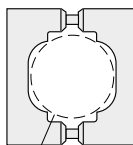
146-7202 SP1-M5 \varnothing 76-89

SP2



\varnothing 38-60

146-7203 SP2-M5 \varnothing 38-60



\varnothing 76-89

146-7204 SP2-M5 \varnothing 76-89

Installation

The SP pole clamps are designed to be used with WE-EF products. The contractor can consider using other luminaires with these pole clamps, however WE-EF cannot be held responsible for any warranty returns related to the clamp or luminaire.

Notice: Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

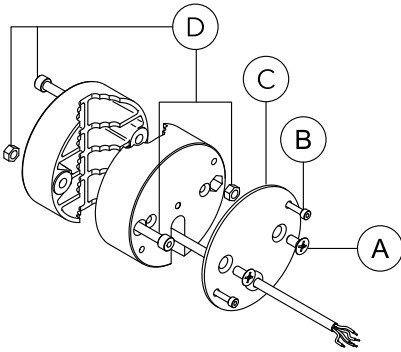
Installation Procedure

The SP1 pole clamp is used for single luminaire assemblies. The SP2 pole clamp is used for double luminaire assemblies. The M5 version is for FLC311 and FLC321.

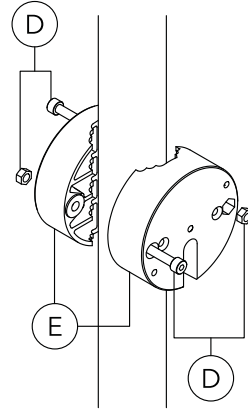
Installation Procedure

- 1) Remove screws **A**, bolts **B** and plate **C** including cable. Disassemble bolts and nuts **D**.

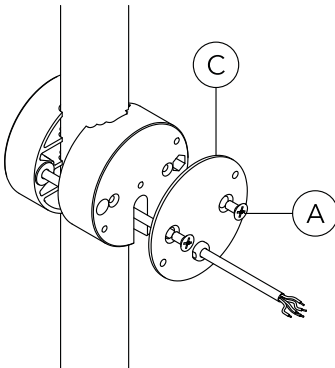
Note: Do not remove the cable and strain relief clip from sheet **C**.



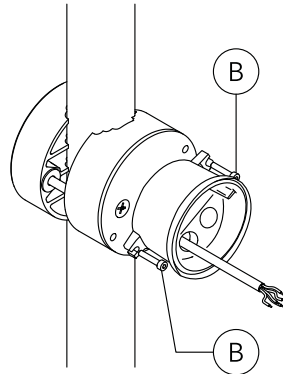
- 2) Check that the SP pole clamp reference corresponds to the pole diameter.
Assemble the clamps **E** by means of bolts and nuts **D** to the pole at the desired position.



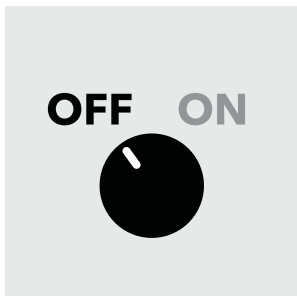
- 3) Place sheet **C** including cable on the clamps and fix it by means of screws **A**.



- 4) Ensure the cable entry of the luminaire flange plate (not supplied) is aligned with the cable. Attach the flange plate by means of bolts **B**.



- 5) Switch off mains power supply and connect wires according to separate luminaire installation instruction.



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