we-ef



WE-EF LEUCHTEN

Installation and Maintenance
Instructions

Projector

FLC210 LED FLC220 LED FLC230 LED

FLC240 LED

FLC210-CC LED

FLC220-CC LED

FLC230-CC LED

FLC240-CC LED FLC260-CC LED

FLC210-TW LED

FLC220-TW LED

FLC230-TW LED

FLC240-TW LED

FLC260-TW LED



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

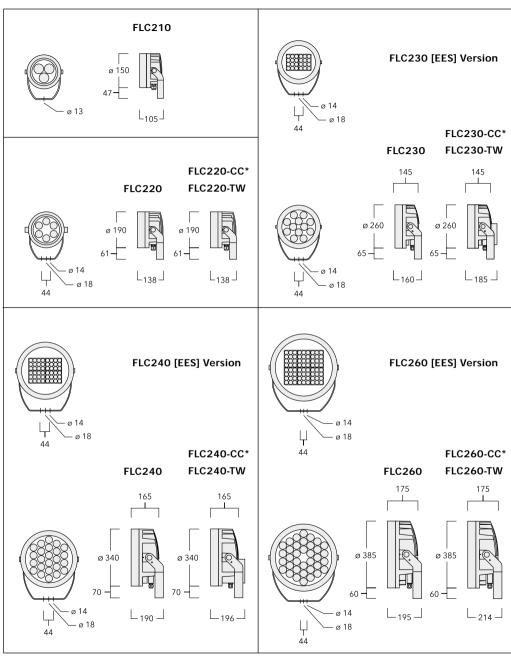
This product features built-in surge protection circuitry in compliance with applicable standards.

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/ IFC61643-1.

Warning

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

Projector



IP66, IK07, Class I, ta = 25°C

Weight	kg
for FLC210	4.0
for FLC220/FLC220-CC/FLC220-TW	4.3/4.3/4.3
for FLC230/FLC230-CC/FLC230-TW	7.6/7.7/7.7
for FLC240/FLC240-CC/FLC240-TW	12.6/13.8/13.8
for FLC260/FLC260-CC/FLC260-TW	17.5/18.0/18.5

Windage area	m²
for FLC220	0.030
for FLC230	0.054
for FLC240	0.090
for FLC260	0.116

Tools required

- Screwdriver T-25 / T-30 (provided by WE-EF)
- Screwdriver with blade 3 x 1

Light Source

LFD

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.

Accessories:

Wireless version*

for FLC220/230/240/260-CC 430-0018

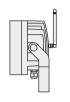




for FLC220-CC

for ELC230/240/260-CC

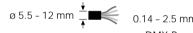
for FLC220/230/240/260-CC 430-0036





for FLC220-CC

for FLC230/240/260-CC





For further information refer to separate TO9267W instruction for wireless DMX.

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

For operation as colour changer the floodlights of the FLC200-CC series require a DMX control signal (DALI on request). The operation without control signal may lead to error.

For operation with Tunable White, a DALI DT8 controller is required.



Do not stare at the operating light source.

For eye safety, the following requirement applies to luminaires with a colour temperature of 4000K in combination with light beam [EE] / [EES]:

The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2.8 m / 3.4 m is not expected.

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.

Do not stare at the operating light source.

For eye safety, the following requirement applies to luminaires with a colour temperature of 4000 K in combination with light beam [EE] / [EES]: The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2.8 m / 3.4 m is not expected.

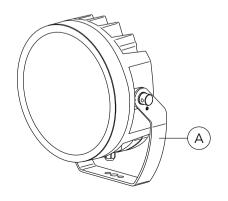
Notice: If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/ organisation. Claims based on defects attributable to improper installation and/or application, and the consequences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

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

Installation Procedure

 Prior to electrical connection, proceed with mechanical installation by securing stirrup A to optional mounting accessory or directly to a suitable surface. Aim luminaire in the desired direction

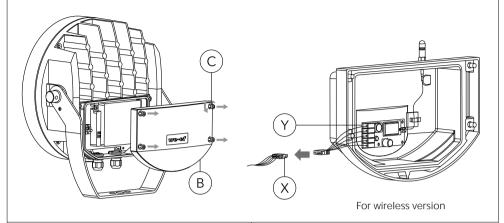
Warning: Ensure not to damage any electric cable, water pipe or other devices while drilling holes.



2) Switch off mains electrical supply.



3) Remove gear box cover **B** by releasing screws **C** using a Torx T-25 / T-30 tool (provided by WE-EF). For wireless version; Pull off connector **X** of receiver **Y**. Do not stress the cables.



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



(example)

5) Feed mains supply cable **D** through cable gland **E**. See Fig I.

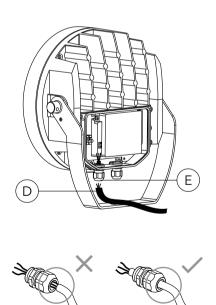


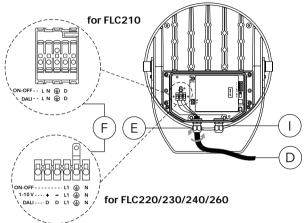
Fig I. Feed mains supply cable through cable gland

- 6) Connect leads of mains supply cable D (and second cable I for through wiring, if required) to respective terminals in terminal block F:
 - a) ON/OFF or wireless version (L = Phase, N = Neutral, ⊕ = Earthing)
 - b) 1-10 V/DALI (L = Phase, N = Neutral, \oplus = Earthing, DA/DA = DALI control line, D-/D+ = 1-10 V control line).
 - c) DMX (L = Phase, N = Neutral, = Earthing, -/+ = DMX control line, S = Shield).

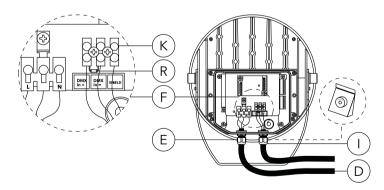
Tighten cable gland ${\bf E}$.

For FLC210-CC, refer to separate instruction TO9144W.

For operation with Tunable White, a DALI DT8 controller is required.



6.1)For DMX only: If through wiring (daisy-chain) for the DMX signal is required, remove resistor **R** between DMX in + and DMX in - of terminal **K** and connect outgoing DMX wires instead. Do not remove resistor **R**, if no through wiring for the DMX signal is required. Might change packing ring in cable gland in order to be suitable for single DMX cable



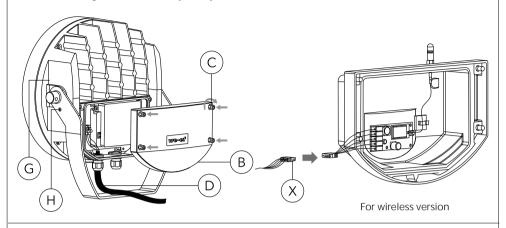
Maximum gear boxes per DMX bus:	max.
FLC210-CC	32
each gear box can have max. 4 luminaire	es

Maximum luminaires per DMX bus:	max.
FLC220-CC	32
FLC230-CC	32
FLC240-CC	16
FLC260-CC	10

If in any case more luminaires are required, the booster box (on request) has to be used.

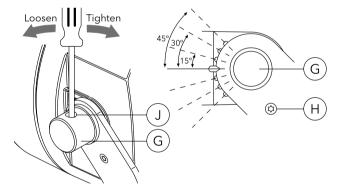
7) Reposition gear box cover \boldsymbol{B} and retighten screws $\boldsymbol{C}.$

For wireless version: Reconnect connector **X**. Ensure that the connection is tightly snapped into place. When closing the cover, do not jam any cables.



8) Loosen two screws **G** by insert screw driver into hole **J**. Aim luminaire (see illustration), tighten screws **G** firmly (**max. 100 Nm**).

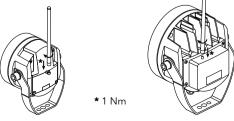
In addition, tighten screw **H** (max. **6 Nm**) using a Torx T-30 tool (provided by WE-EF) to secure orientation of luminaire (not necessary for FLC210/220).



Torque	
Screw	Torque
M4	max. 2.0 Nm
M5	max. 4.0 Nm
M6	max. 6.0 Nm
M8	max. 15.0 Nm
M10	max. 23.0 Nm
M16	max.100.0 Nm

Cable gland	Torque	
M16	max.	1.5 Nm
M20	max.	3.0 Nm

 For wireless DMX solution with 5dB antenna: Attach antenna to luminaire and tighten with max. 1 Nm.



For FLC220-CC

For FLC230/240/260-CC



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Technical specifications are subject to change.

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WE-EF LEUCHTEN

Installation and Maintenance Instructions

Projectors
Wiring instruction
FLC210-CC



Installation

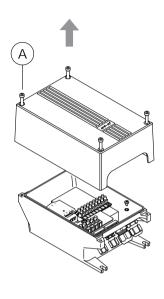
The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

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

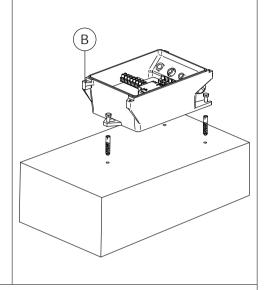
Installation Procedure

FLC200 luminaire installation instructions refer to separate instruction TO9255W.

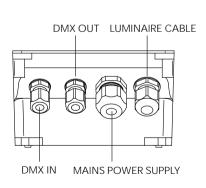
1) Open the driver box by loosing the 4 fastening screws **A**.

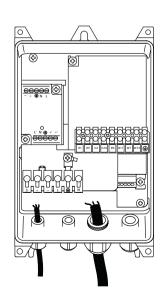


2) Fasten driver box flange **B** to the mounting surface with suitable fastening material.

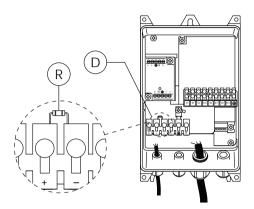


3) Feed mains cable and DMX cable through respective cable glands.



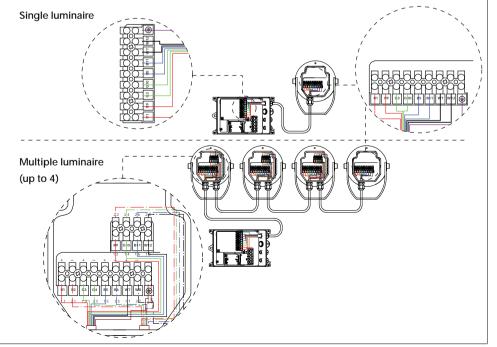


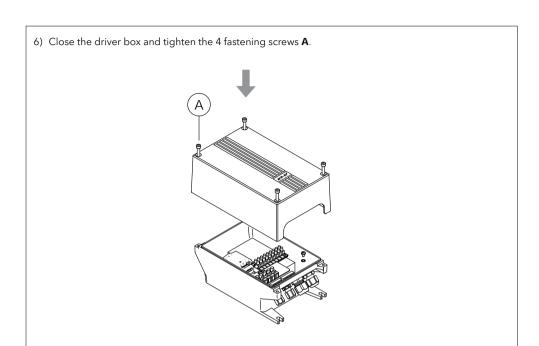
4) Connect leads of main supply cable to respective terminals in terminal block **D**. L = Phase, N = Neutral, ⊕ = Earthing, -/+ = DMX control line, S = Shield. Tighten cable glands. If through wiring (daisy-chain) for the DMX signal is required, remove resistor **R** between +/-. Do not remove resistor **R**, if no through-wiring for the DMX signal is required.



5) The supply driver box is designed for the operation of 1-4 luminaires in a row and a distance from the driver box to the last luminaire of max. 25 m.

Feed luminaire cable through respective cable gland and connect as shown in the wiring diagram.







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