we-ef

WE-EF LEUCHTEN
Installation and Maintenance
Instructions

Projector
FLC210 LED
FLC220 LED
FLC230 LED
FLC240 LED
FLC260 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

we-ef
INSTALLER
HOTLINE
+61 458 933 399
7am – 7pm AEST

Installation tools
Mounting hardware used on this product includes fasteners with hexalobular socket heads (ISO 10664). Installation requires the use of matching tools.
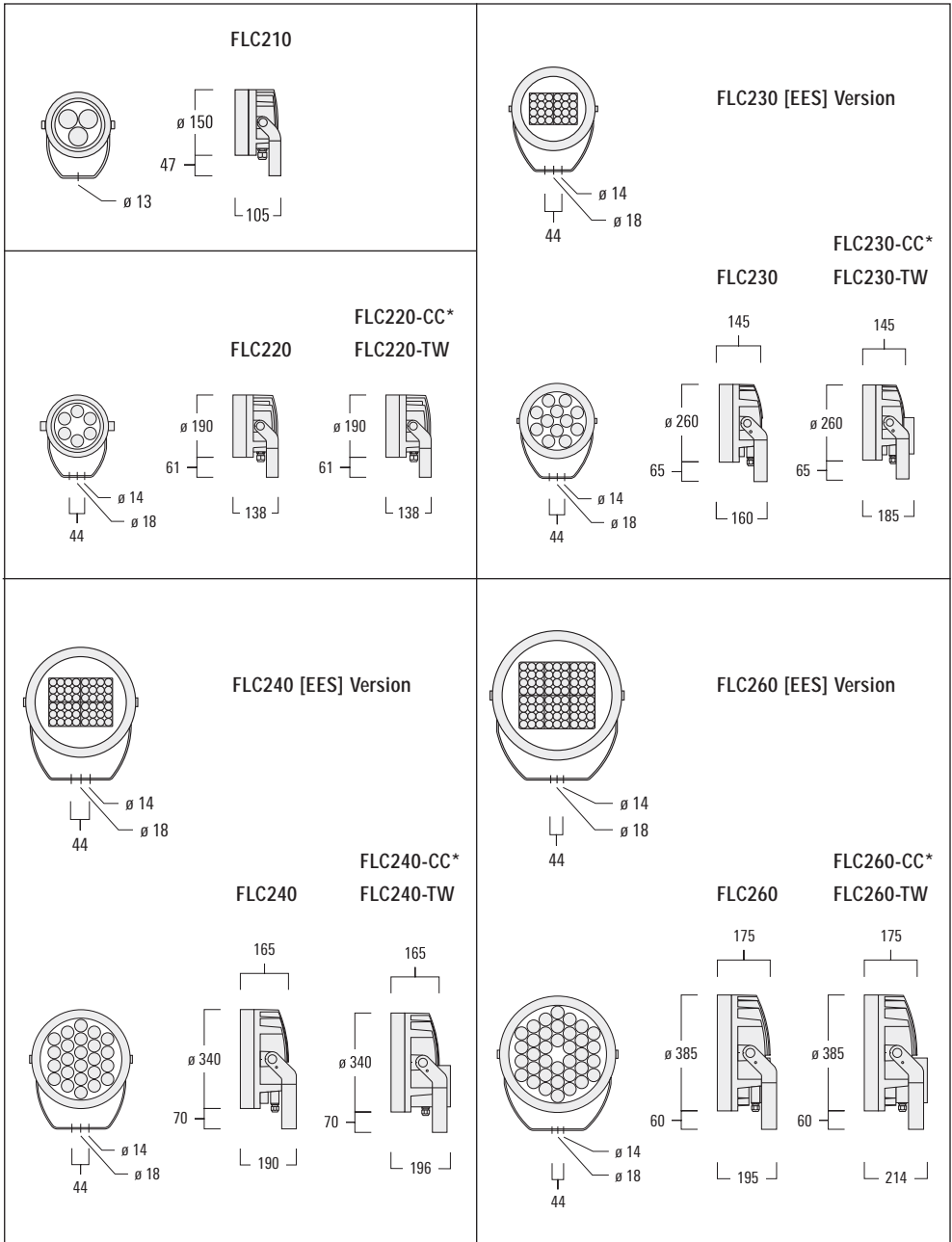
Surge Protection
This product features built-in surge protection circuitry in compliance with applicable standards.
For comprehensive protection of a luminaire installation against lightning and electrical surges, it is essential to cover mains supply and data input lines at the distribution board level, 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

FLC210

ø 150
47
ø 13
105

FLC230 [EES] Version

ø 14
ø 18
44

FLC220
FLC220-CC*
FLC220-TW

ø 190
61
138

ø 190
61
138

ø 14
ø 18
44

FLC230-CC*

FLC230
FLC230-TW

145
ø 260
65
160

145
ø 260
65
185

ø 14
ø 18
44

FLC240 [EES] Version

ø 14
ø 18
44

FLC260 [EES] Version

ø 14
ø 18
44

FLC240
FLC240-CC*
FLC240-TW

165
ø 340
70
190

165
ø 340
70
196

ø 14
ø 18
44

FLC260
FLC260-CC*
FLC260-TW

175
ø 385
60
195

175
ø 385
60
214

ø 14
ø 18
44

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

– Screwdriver with blade 3 x 1

Accessories:

Wireless version*

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

For further information refer to separate TO9267W

instruction for wireless DMX.
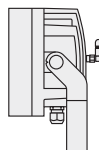
for FLC220-CC   for FLC230/240/260-CC

ø 5.5 – 12 mm   0.14 – 2.5 mm²

DMX-Power
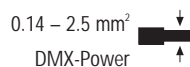
Light Source
LED

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.

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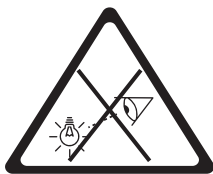
Do not stare at the operating light source.
For eye safety, the following requirement applies to luminaires with a colour temperature of 4000K in combination with light beam [EE] / [EES]:
The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2.8 m /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

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) 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.
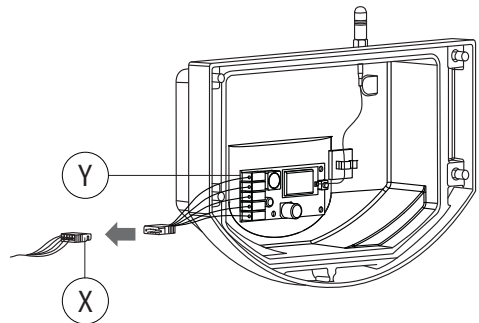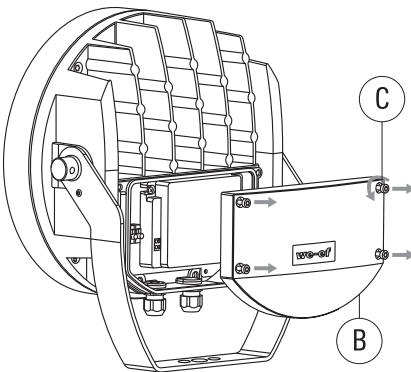**Warning:** Ensure not to damage any electric cable, water pipe or other devices while drilling holes.
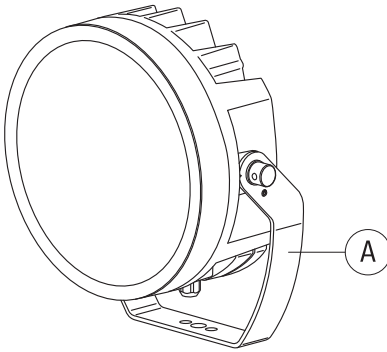
2) Switch off and isolate mains electrical supply.

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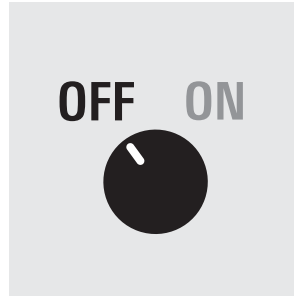
3) Remove gear box cover **B** by releasing screws **C** using a Torx T-25 / T-30 tool. For wireless version: Pull off connector **X** of receiver **Y**. Do not stress the cables.

For wireless version

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

we-ef	11/18 IP66 $C\epsilon$
FLC230-LED ➡	220-240V/50-60 Hz
139-XXXX	SOE XXXXXXX
LED 3000K 12W	item no. XXX

(example)

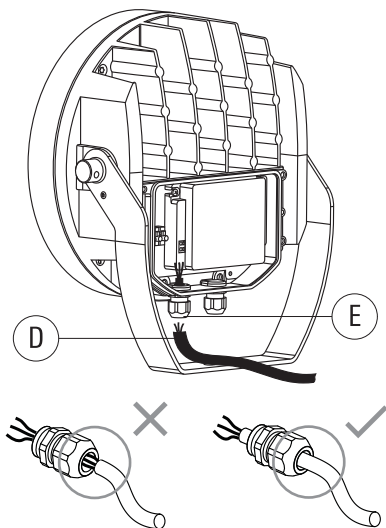5) Feed mains supply cable **D** through cable gland **E**. See Fig I.

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, $\oplus$ = 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, $\oplus$ = Earthing, –/+ = DMX control line, S = Shield).

Tighten cable gland **E**.

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

ON-OFF ········· L1 $\oplus$ N
1-10V ····· + − L1 $\oplus$ N
DALI ····· D D L1 $\oplus$ N
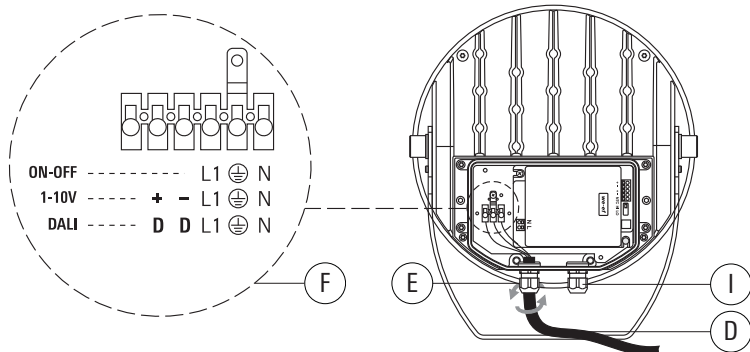
6.1) For DMX only: If through wiring (daisy-chain) for the DMX signal is required, do not use termination resistor **R** (not supplied) between DMX in + and DMX in – of terminal **K** and connect outgoing DMX wires instead. If this is the last fitting on the DMX line, use resistor **R**. Please change the packing ring in cable gland in order to suit DMX cable of smaller outer diameter.
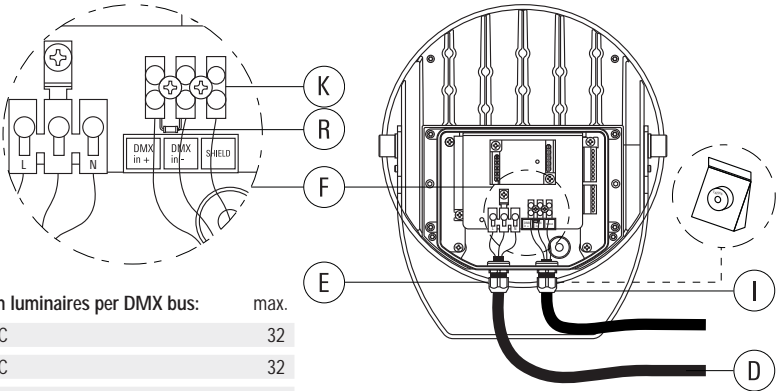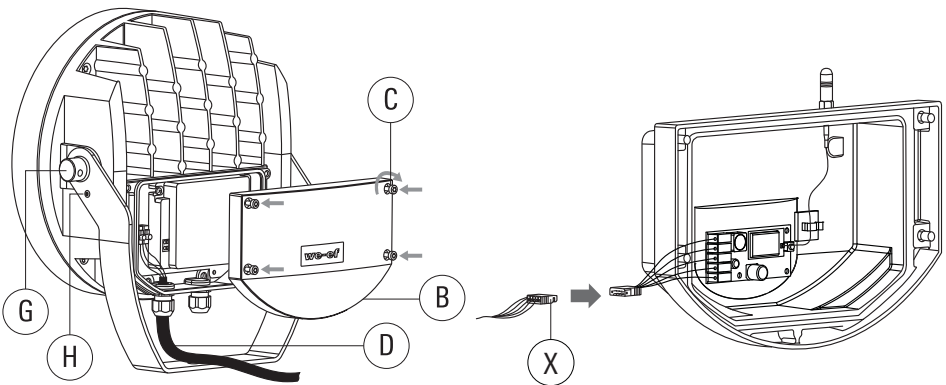

Maximum luminaires per DMX bus:	max.
FLC220-CC	32
FLC230-CC	32
FLC240-CC	16
FLC260-CC	10

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

7) Reposition gear box cover **B** and retighten screws **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.

For wireless version

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 to secure orientation of luminaire (not necessary for FLC220).
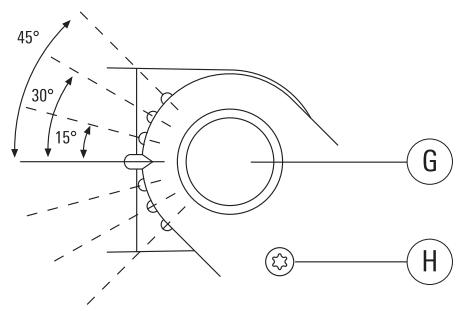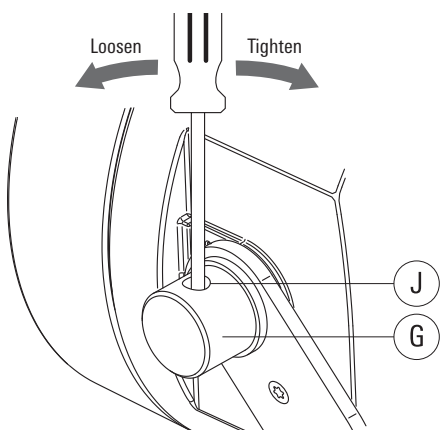
Torque

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

we-ef

www.we-ef.com

WE-EF LEUCHTEN
Germany
Tel +49 5194 909 0
Fax +49 5194 909 299
info.germany@we-ef.com

WE-EF LUMIERE
France
Tel +33 4 74 99 14 44
Fax +33 4 74 99 14 40
info.france@we-ef.com

WE-EF HELVETICA
Switzerland
Tel +41 22 752 49 94
Fax +41 22 752 49 74
info.switzerland@we-ef.com

WE-EF LIGHTING
Thailand
Tel +66 2 738 9610
Fax +66 2 175 2174
info.asiapacific@we-ef.com

WE-EF LIGHTING
Australia
Tel +61 3 8587 0444
Fax +61 3 8587 0499
info.australia@we-ef.com

WE-EF LIGHTING
United States of America
Tel +1 724 742 0030
Fax +1 724 742 0035
info.usa@we-ef.com

we-ef
INSTALLER
HOTLINE
+61 458 933 399
7am – 7pm AEST

Technical specifications are
subject to change.