



PRODUCT SPECIFICATION

FORTECO



INTRODUCTION

The Forteco offers a powerful, robust and versatile solution for applications ranging from industrial and manufacturing through to food production, logistics and sports halls. With die cast aluminium LED housings and steel spine finished in powder coat grey RAL9006 the Forteco is designed to achieve an IK10 rating offering protection against impacts and ball strikes, whilst the ventilated heat sink design allows this luminaire to offer up to 60,000 lumen outputs. Depending on lumen output and emergency gear selection the Forteco is also designed to operate in ambient temperatures up to 50°C.

With three lens options and 2, 4 or 6 LED circuit variants, the Forteco can be tailored to suit a wide range of applications, mounting heights and luminaire spacings. This versatility is further enhanced with a range of control options offering integral presence detection and daylight detection as well as compatibility with our wireless systems such as Reacta-Control and Reacta-Link offering centralised control and monitoring. The Forteco can also be specified with all common dimming variants and is available with integral lithium emergency offering extended battery lifetime and warranty.



CE IP65 IK10 TM21: L90>60K HOURS / L80>100K HOURS 3 STEP MACADAM ELLIPSE

APPLICATION

- Food Production
- Industrial / Manufacturing
- Retail
- Sports Hall
- Transport
- Warehousing

SPECIFICATION

CONSTRUCTION

- Housing: 0.8mm HC220 steel
- Housing: High pressure die cast aluminium
- Finish: Polyester powder painted RAL 9006 textura matt grey
- Lens: Injection moulded polycarbonate lens
- IK10 in non sensor variants
- IP65

PERFORMANCE

- Part L2 compliant
- 3SDCM Three step Macadams ellipse
- TM21: L90>60K Hours / L80>100K Hours
- Up to 179 luminaire lumens per circuit watt.

ENVIRONMENTAL

- Designed to allow simple replacement of components with commonly available tools in compliance with the Eco Design Directive, please see the installation leaflet for maintenance instructions.
- Powered by European branded drivers and emergency modules ensuring replacement parts are easily sourced.
- Every luminaire is labelled with a unique ID number allowing easy identification of spare parts for the lifetime of the product.
- Contains no single use plastics or polystyrene packaging.
- Supplied in plain card boxes with paper tape ensuring packaging is easily recycled.
- Designed to allow simple disassembly for end of life recycling.
- UK based manufacturing providing local support throughout the product lifetime and minimising transportation miles.

EMERGENCY

- Available with optional standard, self test and autotest integral emergency with lithium batteries for extended

warranty and lifetime.

- Optional Reacta-Link wireless emergency for automated centralised reporting.
- Optional Reacta-Control wireless emergency for automated centralised reporting.
- Optional central battery changeover relay

CONTROL

- Optional compatibility with a range of dimming systems including DALI, DSI and Switch Dimming
- Optional Integral R18 presence and daylight sensor
- Optional integral Reacta-Link for integration with Reacta-Link wireless installations

INSTALLATION

- Suitable for suspended installation
- Suitable for trunking installation
- Suitable for surface installation

VARIATIONS

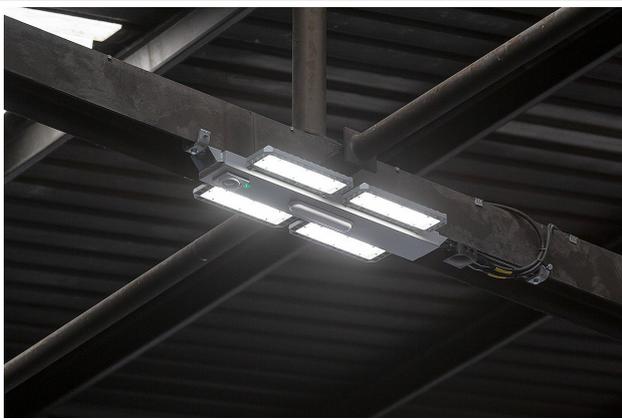
- Available with a wide range of colour temperatures and renderings
- Available in a range of housing sizes and lumen outputs
- Some variants suitable for 50°C ambient temperatures

IMAGES

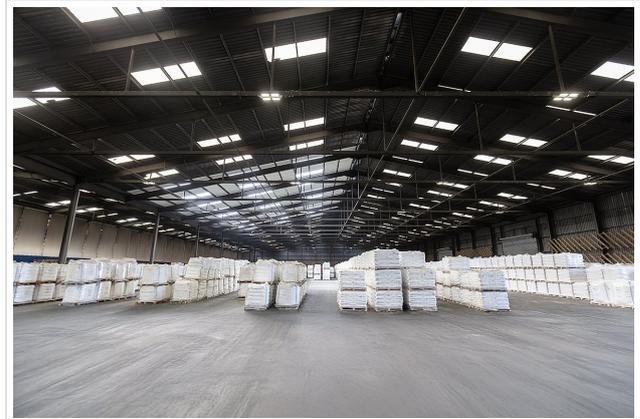
PRODUCT IMAGES



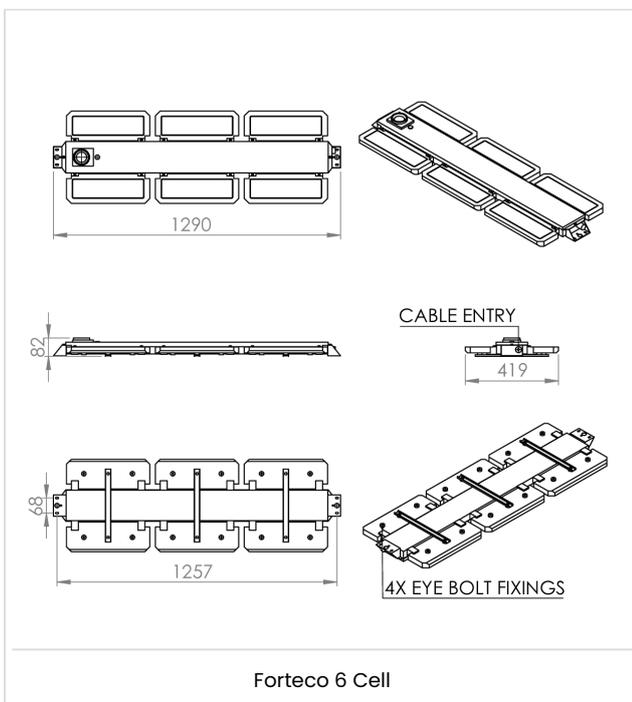
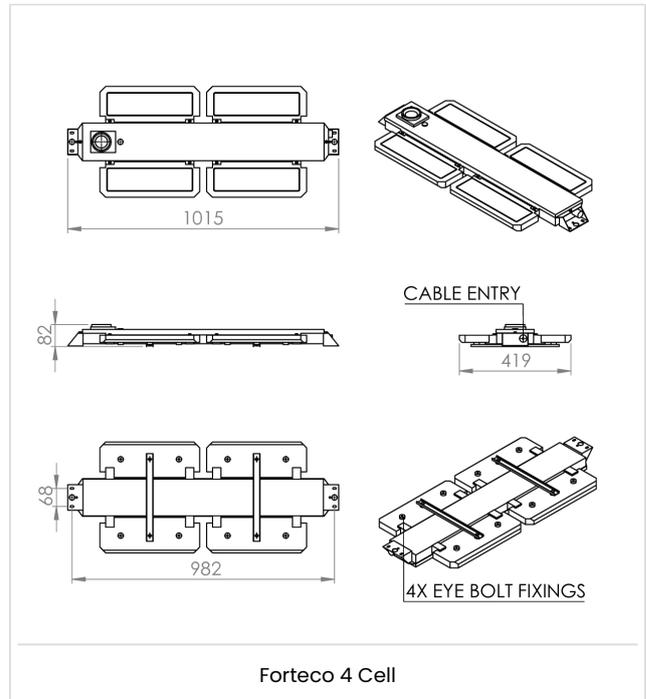
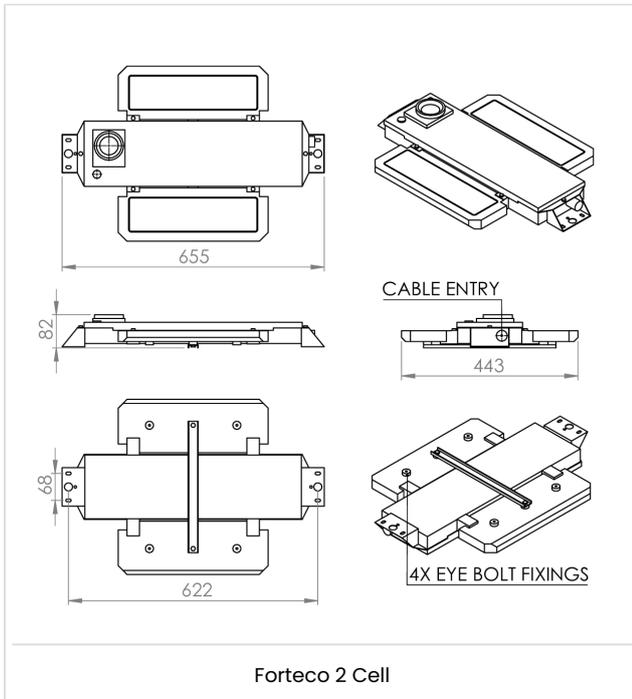
PROJECT IMAGES



PD Ports using the Forteco 4 Cell



TECHNICAL



WARRANTY

At Dextra our commitment to service has been at the forefront throughout our history spanning more than forty years in the UK lighting market. Our service ethos extends beyond design and delivery, we believe supporting your installation throughout the warranty period is equally crucial, whilst the strength and longevity of Dextra Group provides peace of mind that our warranty will be supported throughout.

The Dextra range is supplied with a five year warranty commencing from the date of delivery. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years drivers, emergency modules, wireless modules, sensors and LED circuits will be supplied free of charge to replace defective components, labour and other associated costs are not included.

Certain ranges and components are subject to exemptions:

- ▶ Lithium batteries are provided with a five year warranty. During the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components. Five year warranty became effective as of 03/02/25, Lithium emergency luminaires supplied prior to this date are supported with a three year on site warranty only. Labour and other associated costs are not included. Nickel Metal Hydride and Nickel Cadmium batteries are provided with a one year warranty for parts and labour.
- ▶ Emergency luminaires including AME2, EXI LED, EXI3, HBE3, HBE4, OAT2 LED and Twinspace are supplied with a one year warranty for parts and labour. Lithium variants suffixed with the 5YR part code, the Autotest emergency with the LA3 part code and wireless variants with LA3RC or LSTR part codes are supplied with a five year warranty. For these extended warranty variants for the first three years defects will be repaired on site and the warranty will include both parts and labour. For the final two years replacement batteries will be supplied free of charge to replace defective components.
- ▶ Protec Micro, PTECF7 Fire Rated Downlights, Serenus and the Opus Sconce are provided with a five year replacement luminaire only warranty. Protec FR Fire Rated Downlights are provided with a 2 year replacement luminaire only warranty.
- ▶ Controls systems such as standalone sensors, switches, marshalling boxes and cabling are provided with a one year warranty for both parts and labour. DALI control systems are provided with a two year warranty for both parts and labour.
- ▶ LEDextra ranges are supplied with a three year parts or replacement luminaire only warranty with the exception of the IMPR RGBW, the Runway RGBW, the MOD RGBW, Tanek RGBW and the DexRing. These five ranges are supplied with our standard five year warranty during which defects within the first three years will be repaired on site and the warranty includes both parts and labour. For the final two years free of charge replacement components only will be supplied to rectify any failures but labour and other associated costs are not included.
- ▶ LEDEX ranges are supplied with a three year replacement luminaire only warranty.
- ▶ The Decorative Pendant ranges, Bebo, Dene, Nova, Fino and Stix are supplied with a 3 year replacement luminaire only warranty.

All warranties are subject to correct use of the product and will be invalidated by misuse, for example incorrect installation, unsuitable environmental conditions or incorrect maintenance. It is the duty of the customer to ensure that all the fault lies with the luminaire prior to requesting replacement parts or site repairs. In the event that no defect is found with the product our costs for attending site will be recharged to the customer and credit

will not be issued against returned products. No consequential losses incurred resulting from any defect with our product will be reimbursed.

Given the nature of LED technology a small percentage of LEDs may fail during the lifetime of a luminaire, this does not cause a reduction in lumen output. As such LED luminaires are only deemed to be faulty for warranty purposes when in excess of ten percent of LEDs have failed in a single luminaire.

On site repair of products under warranty will be undertaken during normal working hours, 9am to 5pm Monday to Friday, and will require unrestricted access to luminaires. Where required Dextra will provide access equipment to carry out repairs at height, should luminaires have been installed in locations where reasonable provision for maintenance access has not been made we reserve the right to supply replacement product only. On site warranty repairs will only be undertaken on the mainland of the UK and Ireland, in all other locations replacement product only will be provided.

If you require any assistance with regards to our products please contact our Customer Services department on 01747 858100.

ORDER CODES

LUMINAIRE

Code	Description	Power	lIm/W
FRT2 L200 OA	Forteco IP65, 2 Cell, 18,440lIm, Open Area, Colour 84.	109.5W	168
FRT2 L200 HR	Forteco IP65, 2 Cell, 18,560lIm, High Rack, Colour 84.	109.5W	169
FRT2 L200 UHR	Forteco IP65, 2 Cell, 18,420lIm, Ultra High Rack, Colour 84.	109.5W	168
FRT4 L300 OA	Forteco IP65, 4 Cell, 27,660lIm, Open Area, Colour 84.	154.7W	179
FRT4 L300 HR	Forteco IP65, 4 Cell, 27,480lIm, High Rack, Colour 84.	154.7W	178
FRT4 L300 UHR	Forteco IP65, 4 Cell, 27,630lIm, Ultra High Rack, Colour 84.	154.7W	179
FRT4 L400 OA	Forteco IP65, 4 Cell, 36,880lIm, Open Area, Colour 84.	219.0W	168
FRT4 L400 HR	Forteco IP65, 4 Cell, 37,120lIm, High Rack, Colour 84.	219.0W	169
FRT4 L400 UHR	Forteco IP65, 4 Cell, 36,840lIm, Ultra High Rack, Colour 84.	219.0W	168
FRT6 L600 OA	Forteco IP65, 6 Cell, 55,320lIm, Open Area, Colour 84.	325.6W	170
FRT6 L600 HR	Forteco IP65, 6 Cell, 55,680lIm, High Rack, Colour 84.	325.6W	171
FRT6 L600 UHR	Forteco IP65, 6 Cell, 55,260lIm, Ultra High Rack, Colour 84.	325.6W	170

L200 and L400 non emergency variants are suitable for 50°C ambient temperatures
IK10 applies to non sensor versions only

DIMMING

Code	Description
A	DALI Digital Addressable Lighting Interface
S	Switch Dimming
D	DSI Digital Dimming
H	HFR Analogue 1-10v

CONTROL

Code	Description
R11	Reacta 11, Presence, IP65, Low Temperature, 3-15M
DN	DexNET Node, Wireless Node only.
RLS10	Reacta-Link Wireless, Presence, 5-10M
RC	Reacta-Control, Wireless Enabled Luminaire
MS18	Reacta 18 IP65, Presence and Daylight, 8-18M
RC18	Reacta-Control Wireless 18 IP65, Presence and Daylight, 8-18M

EMERGENCY

Code	Description
LE3	Lithium Standard Emergency 3 Hour
LS3	Lithium Selftest Emergency 3 Hour
LA3	Lithium Autotest Emergency 3 Hour
LE3H	Lithium Standard Emergency 3 Hour High Output
LS3H	Lithium Selftest Emergency 3 Hour High Output
LA3H	Lithium Autotest Emergency 3 Hour High Output
LA3D	Lithium DexNET Emergency 3 Hour
LSTR	Lithium Reacta-Link Emergency 3 Hour
LA3RC	Lithium Reacta-Control Emergency 3 Hour
CB	Central Battery, Please Specify 110V or 230V when Ordering

MISCELLANEOUS

Code	Description
------	-------------

C**	Select Colour Temperature and Rendering; C827, C83, C85, C865, C93, C94
LSF	Low Smoke Zero Halogen

220-240V / 50-60Hz

IP65 IK10

INTERNAL USE ONLY

Terminal Labelling:

Power

L1 Switched Live
E Earth
N Neutral

Emergency

L2 Unswitched Live
DA/AT3 DALI Autotest
DA/AT3 DALI Autotest

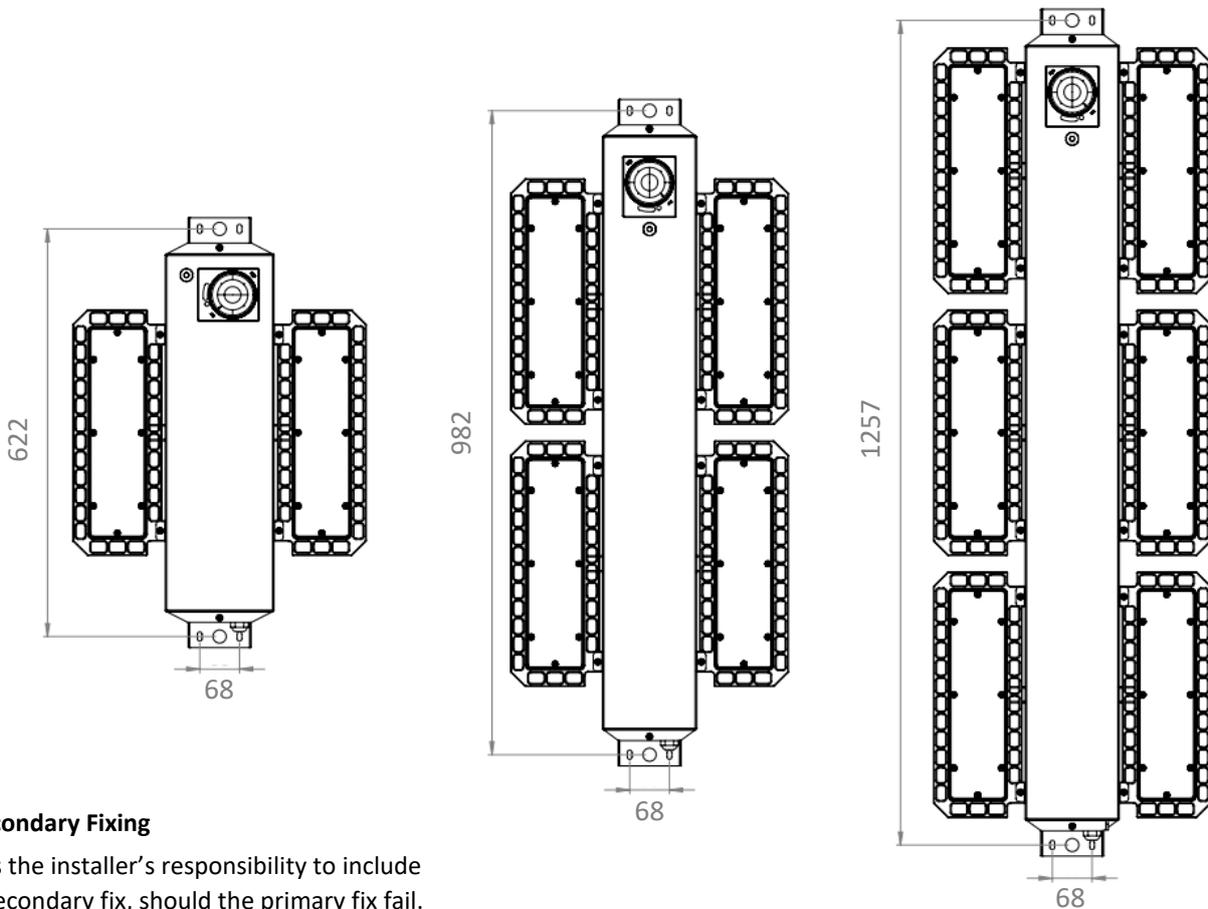
Dimming

-D1/DA Analogue/DSI/DALI
+D2/DA Analogue/DSI/DALI
L3 Switch Dim / Corridor Function



WARNING: Luminaire must be earthed. Risk of electric shock from LED boards if operated with cover removed. Installation / operation outside of luminaires intended scope invalidates warranty. Suitable only for domestic / light industrial / industrial applications within the scope of EN55015. Tested to compliance with BSEN 60598: specification for general requirements and tests. Must be installed by a suitably qualified person in accordance with all relevant legislation. Ambient operating temperature of 0°C to 25°C. If maximum operating temperature is exceeded luminaire will automatically dim / switch off. Terminal blocks are rated to 16A unless stated otherwise. The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person. **LUMINAIRES WITH EMERGENCY PACK:** When supply is isolated battery output terminals may be live if battery is connected. Isolate mains and battery before servicing. Emergency luminaires require unswitched live connection taken from same phase as switched supply. When unswitched supply is connected status indicator illuminates green, when unswitched supply is disconnected indicator extinguishes and luminaire operates in emergency mode. 24 hour charge period required before undertaking full discharge test. Emergency test sheets provided should be used to record all emergency tests. Batteries should be replaced when 3 hour duration is not met. Excessive switching of permanent live may result in premature battery failure. Battery electrolyte can be harmful to eyes / open wounds, do not puncture, if electrolyte touches skin / eyes flush with water. Do not incinerate batteries.

Dimensions



Secondary Fixing

It is the installer's responsibility to include a secondary fix, should the primary fix fail.

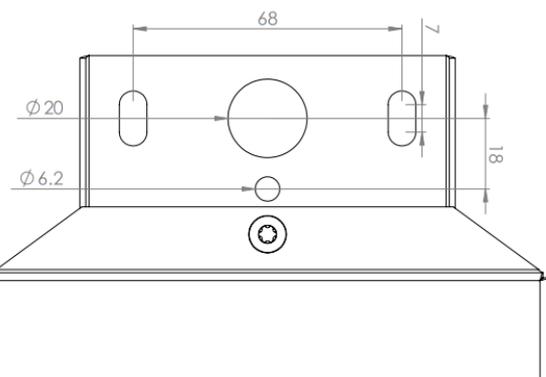
Weight

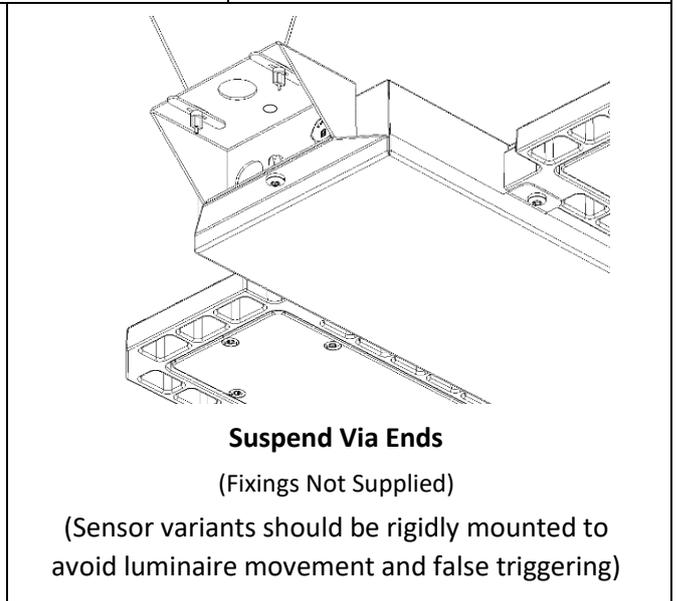
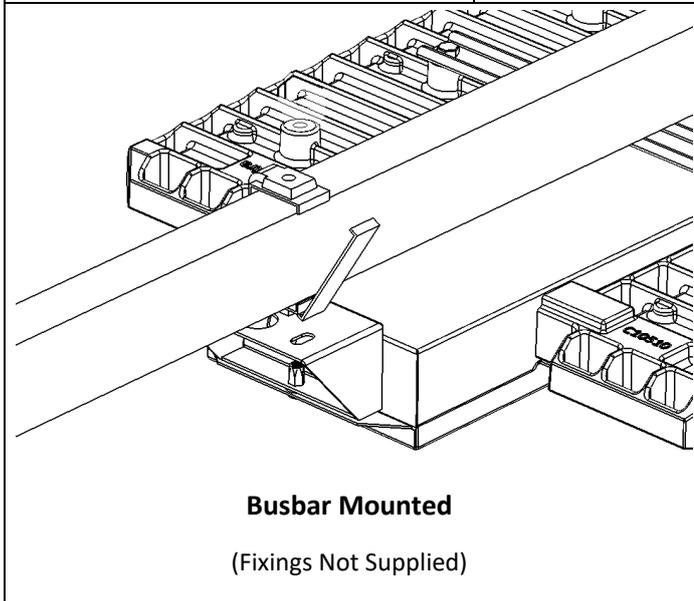
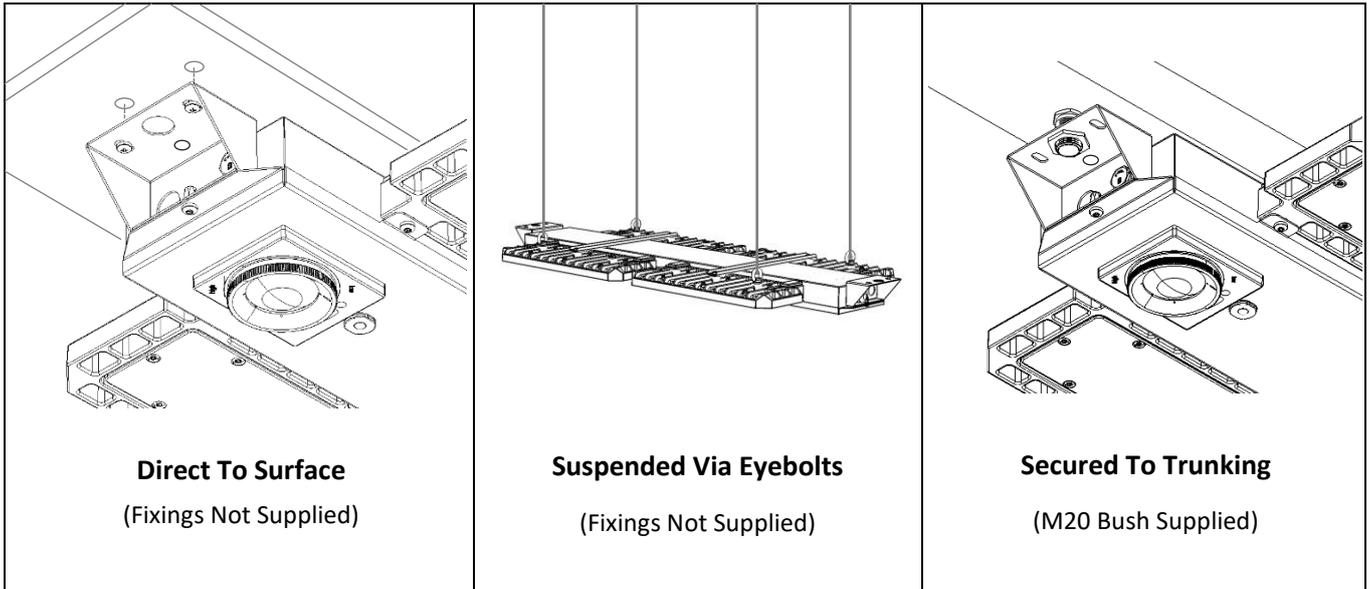
2 Card: 5 - 7KG

4 Card: 10 - 12KG

6 Card: 15 - 17KG

Mount Bracket Dimensions



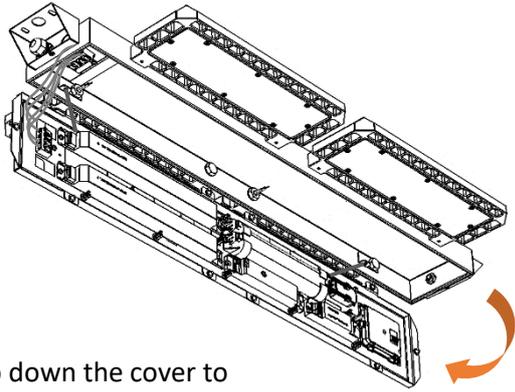


1. Loosen all the T25 screws enough so the cover can be removed. There is no need to remove the screws entirely.

If working in a moisture prone environment, use pressurised air to blow out any liquids around the lip before revealing internal gear.

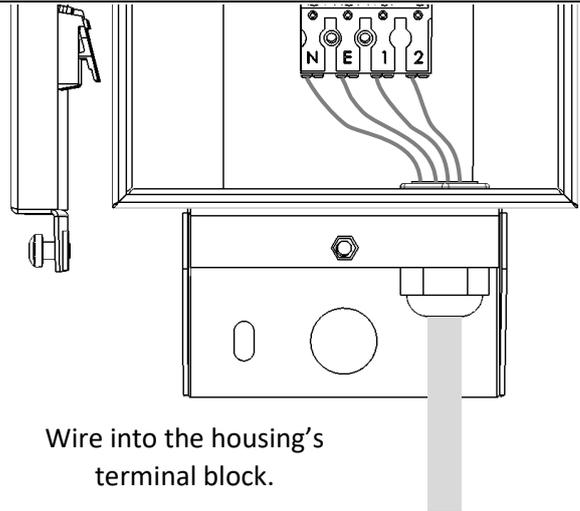
Forteco Installation Guide

2.



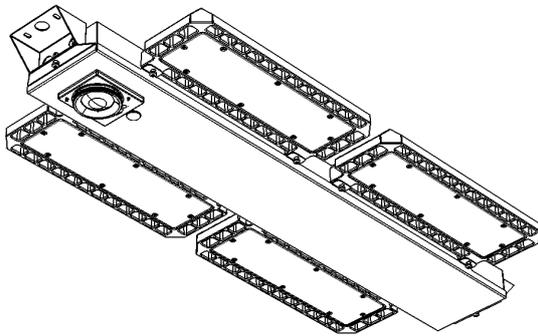
Flip down the cover to reveal the internal gear.

3.



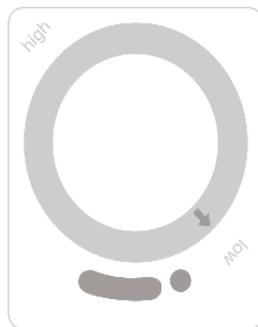
Wire into the housing's terminal block.

4.

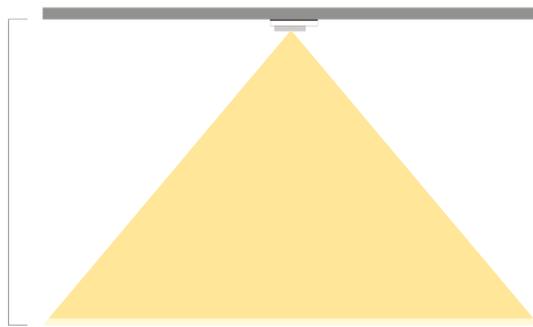


Refit the cover and secure with screws ensuring no wires are trapped, as this may damage wiring or compromise the IP rating.

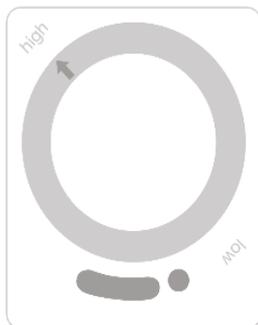
RC18 Sensor



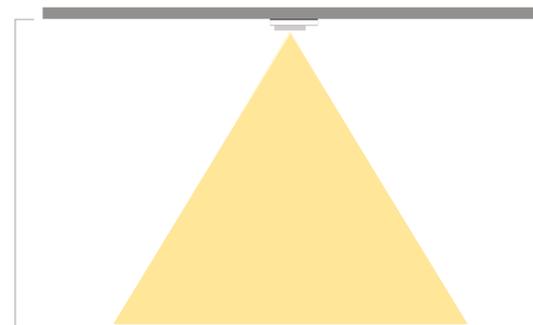
<12m



Rotate dial to adjust sensor height.

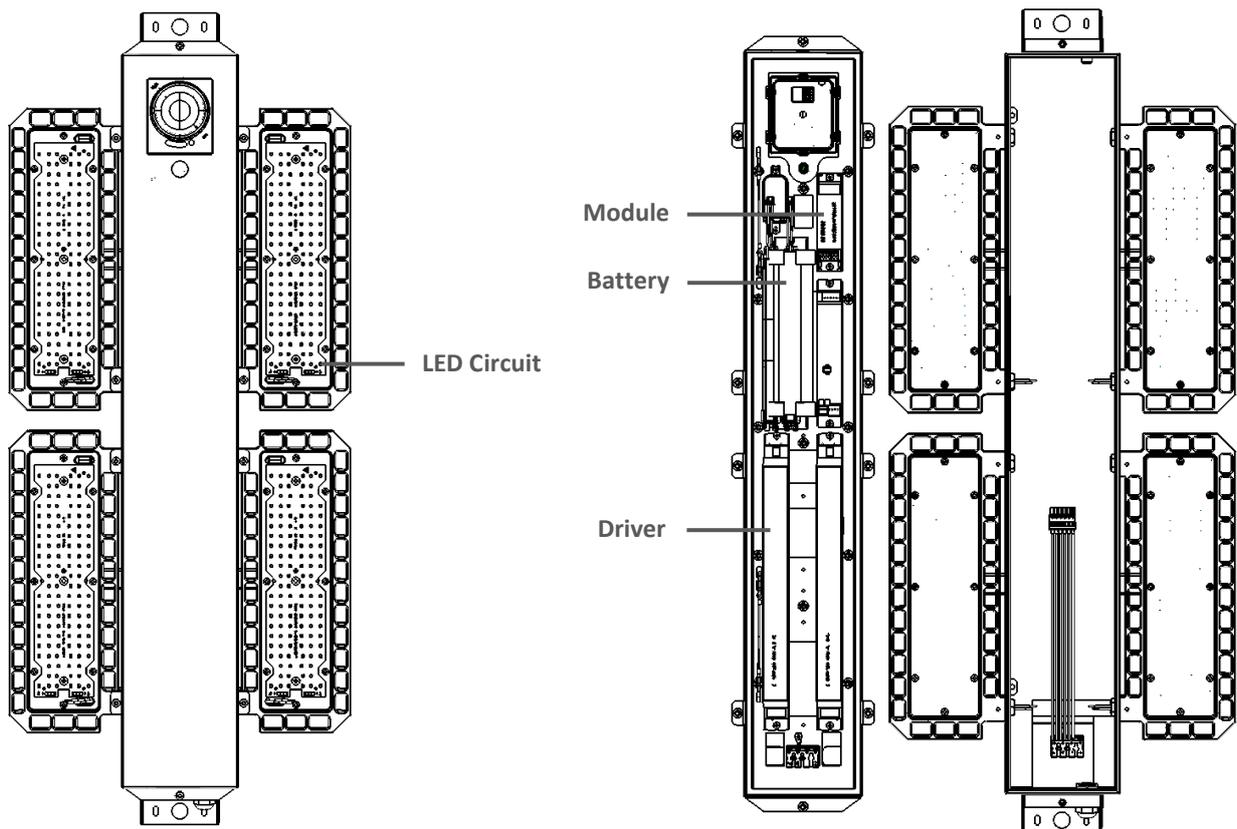


12 – 18m



Maintenance

1. Disconnect the luminaire before undertaking any maintenance or cleaning.
2. Cleaning should be undertaken on external parts of the luminaire only, using a slightly damp, lint-free cloth.
3. Follow Installation steps 2 & 3 to access internal gear. Note that tether clips will be fastened between the gear tray and housing. These may be temporarily released for ease of maintenance but must be refastened.
4. To remove the components, use a PZ2 screwdriver.
5. To access the LED circuits, use a T20 head screwdriver to remove all the screws on the lenses, then remove the lenses themselves. Ensure the Thermal Interface is refitted before reassembling the LED optic.
6. Note: When removing either the front cover or any lenses to gain access to the LED circuit or components, ensure no wires are trapped in the gaskets, and allow for ample drying time if the fitting is in an area exposed to water. Alternatively, blow any contaminants out with pressurized air.
7. Please contact Dextra for assistance with spare component supply.



Please note that component positions may vary,
depending on product length / no. of cards.