



PRODUCT SPECIFICATION

FORTECO CHILL



INTRODUCTION

The Forteco Chill offers a powerful, robust and versatile solution designed specifically for cold store and freezer applications operating to temperatures as low as -40°C , but is equally well suited to any installation where it is desirable to house the driver and emergency control gear remotely. With die cast aluminium LED housings and steel spine finished in powder coat grey RAL9006 the Forteco Chill is designed to achieve an IK10 rating combined with IP65 ingress protection. The Forteco Chill can be supplied with an integral R11 presence detection sensor offering significant energy savings in freezer applications ensuring the luminaires only operate during periods of occupancy. With three lens options and 2, 4 or 6 LED circuit variants offering up to 60,000lm output, the Forteco Chill can be tailored to suit a wide range of applications, mounting heights and luminaire spacings. The Forteco Chill is also available with a wide range of dimming and emergency options and incorporates lithium batteries as standard for extended warranty and lifetime with two emergency output variants.

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

APPLICATION

- Cold Store
- Freezer

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 159 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 RII presence sensor

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

IMAGES

PRODUCT IMAGES



Forteco Chill



Forteco Chill

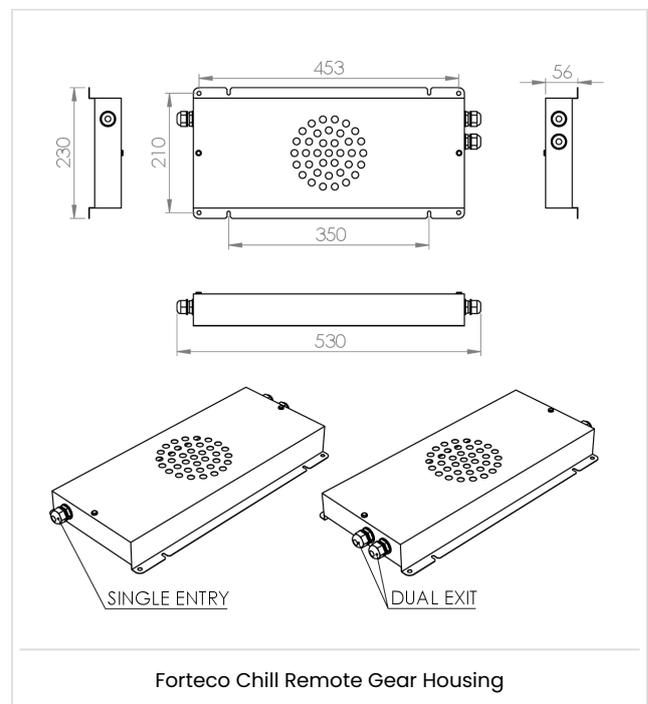
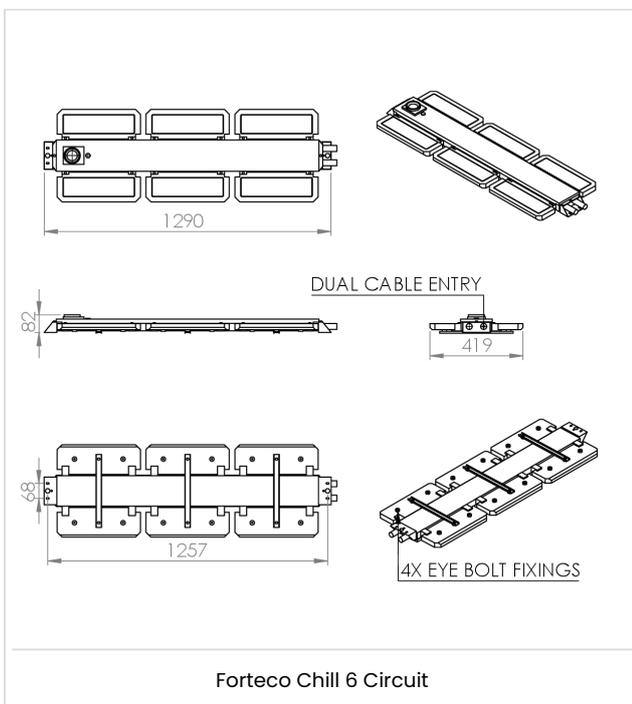
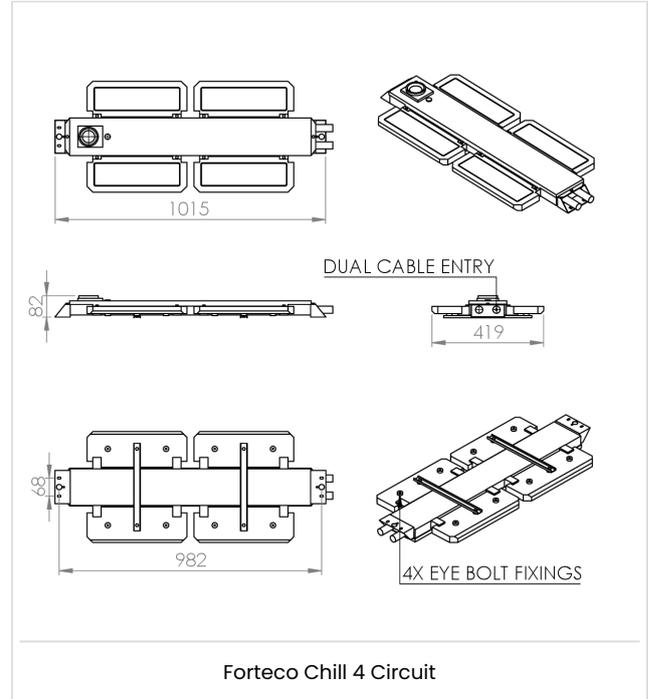
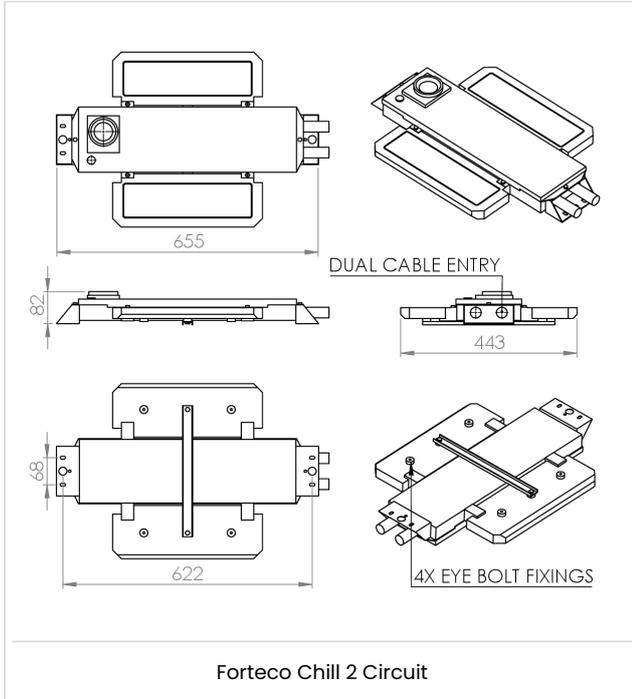


Remote Control Gear Housing



IP68 Plug and Socket Connectors

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	Llm/W
FRC2 L200 OA	Forteco Chill IP65, 2 Cell, 18,440lm, Open Area, Colour 84	116.6W	158
FRC2 L200 HR	Forteco Chill IP65, 2 Cell, 18,560lm, High Rack, Colour 84	116.6W	159
FRC2 L200 UHR	Forteco Chill IP65, 2 Cell, 18,420lm, Ultra High Rack, Colour 84	116.6W	158
FRC4 L300 OA	Forteco Chill IP65, 4 Cell, 27,660lm, Open Area, Colour 84	176.8W	156
FRC4 L300 HR	Forteco Chill IP65, 4 Cell, 27,480lm, High Rack, Colour 84	176.8W	155
FRC4 L300 UHR	Forteco Chill IP65, 4 Cell, 27,630lm, Ultra High Rack, Colour 84	176.8W	156
FRC4 L400 OA	Forteco Chill IP65, 4 Cell, 36,880lm, Open Area, Colour 84	233.4W	158
FRC4 L400 HR	Forteco Chill IP65, 4 Cell, 37,120lm, High Rack, Colour 84	233.4W	159
FRC4 L400 UHR	Forteco Chill IP65, 4 Cell, 36,840lm, Ultra High Rack, Colour 84	233.4W	158
FRC6 L600 OA	Forteco Chill IP65, 6 Cell, 55,320lm, Open Area, Colour 84	353.6W	156
FRC6 L600 HR	Forteco Chill IP65, 6 Cell, 55,680lm, High Rack, Colour 84	353.6W	157
FRC6 L600 UHR	Forteco Chill IP65, 6 Cell, 55,260lm, Ultra High Rack, Colour 84	353.6W	156

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

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
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

Forteco Remote Installation Guide

220-240V / 50-60Hz

IP65 IK10

Terminal Labelling:

Power

L1 Switched Live
 E Earth
 N Neutral

Emergency

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

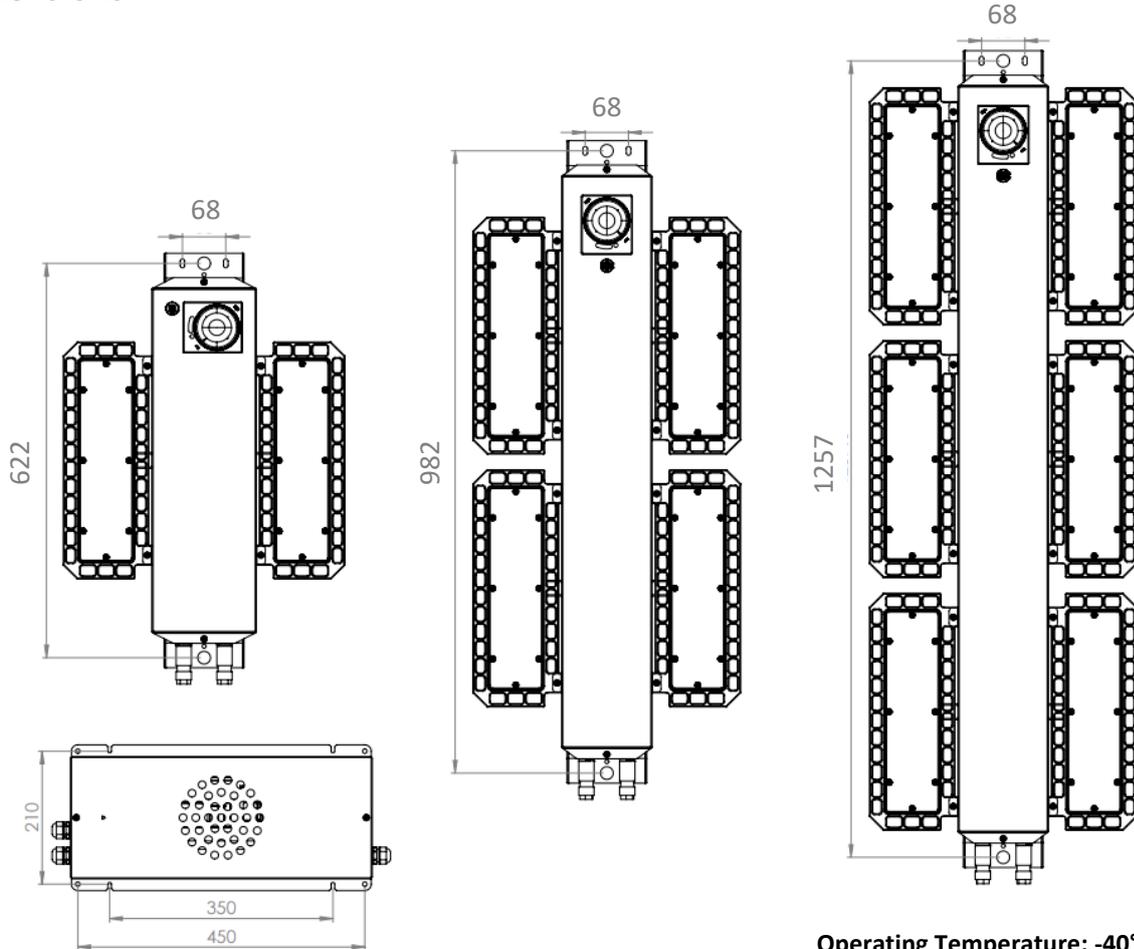
Dimming

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



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



Operating Temperature: -40°C to +25°C

Weight

2 Card: 5 - 7KG

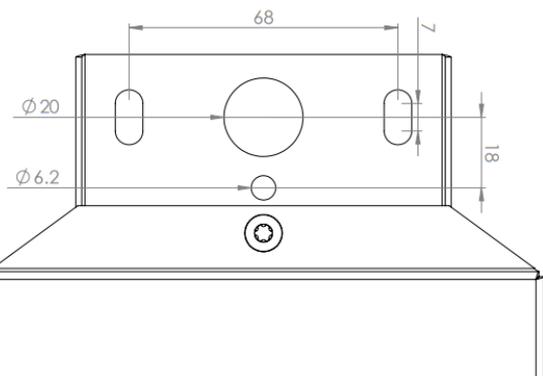
4 Card: 10 - 12KG

6 Card: 15 - 17KG

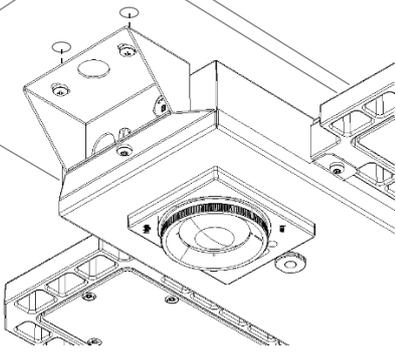
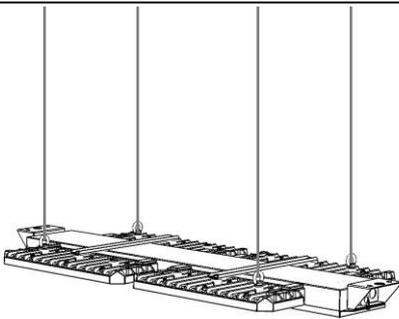
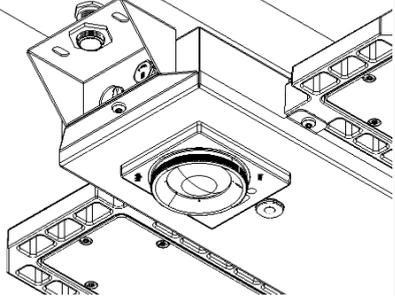
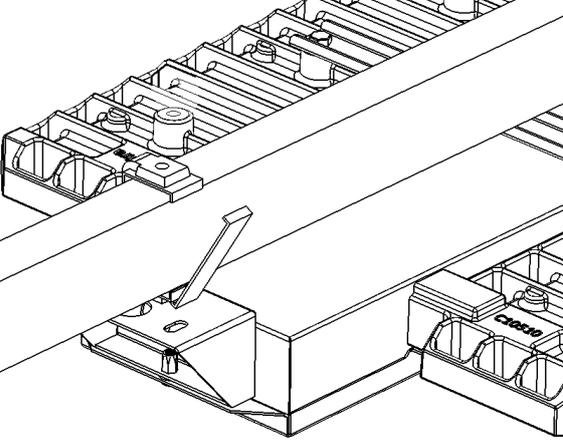
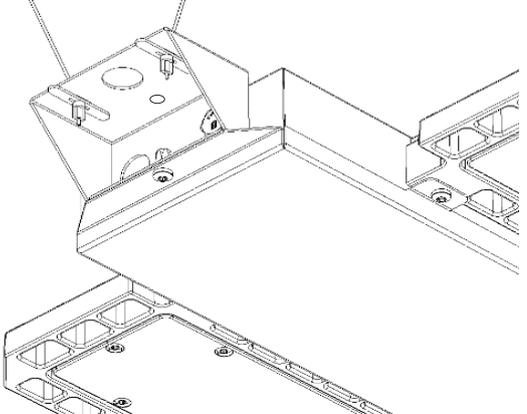
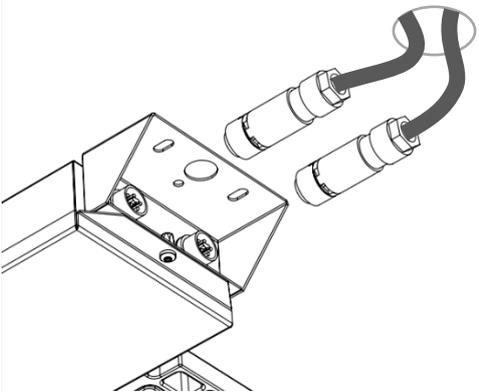
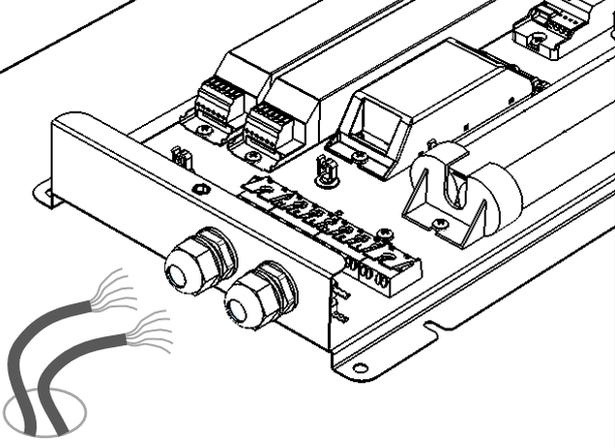
Secondary Fixing

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

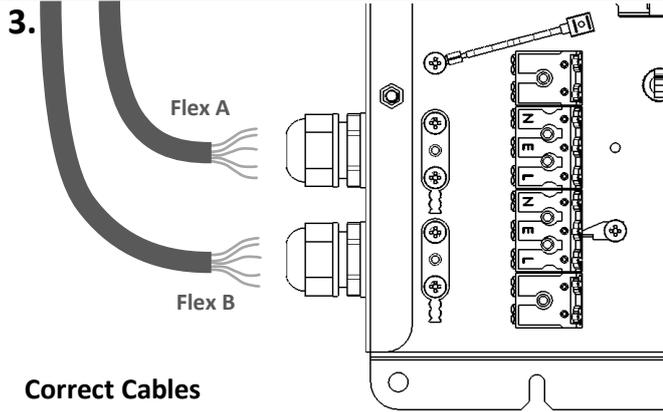
Mount Bracket Dimensions



Forteco Remote Installation Guide

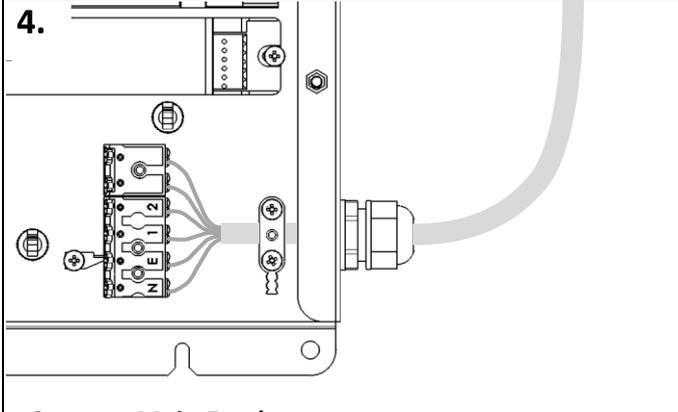
 <p>Direct To Surface (Fixings Not Supplied)</p>	 <p>Suspended Via Eyebolts (Fixings Not Supplied)</p>	 <p>Secured To Trunking (M20 Bush Supplied)</p>
 <p>Busbar Mounted (Fixings Not Supplied)</p>	 <p>Suspend Via Ends (Fixings Not Supplied) (Sensor variants should be rigidly mounted to avoid luminaire movement and false triggering)</p>	
<p>1.</p>  <p>Arctic Cables Feed the cables up through the conduit, then connect to the panel mounts on the fitting.</p>	<p>2.</p>  <p>Connect To Remote Box Remove the remote box lid and wire in the cables, ensuring the cable restraints are used.</p>	

Forteco Remote Installation Guide



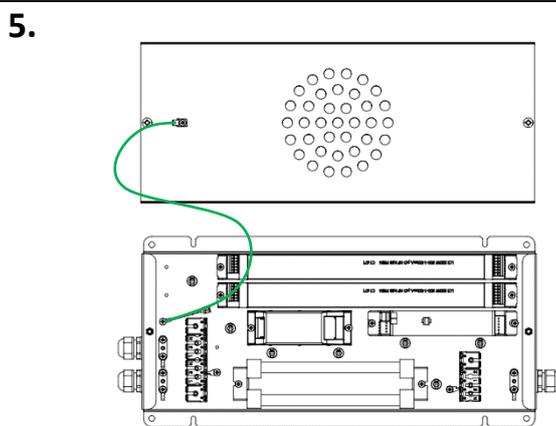
Correct Cables

Read the labels on both cables, and connect them to their matching terminals.



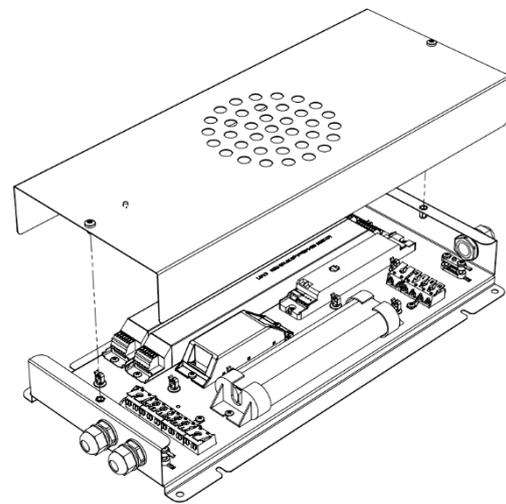
Connect Main Feed

Wire in the main feed and secure with cable clamp.



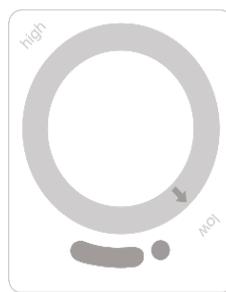
Refit Remote Box Lid

Ensure the Earth lead is connected and refit the lid.

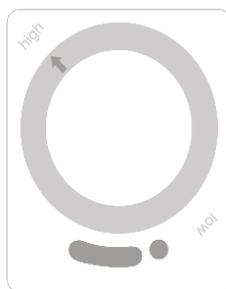
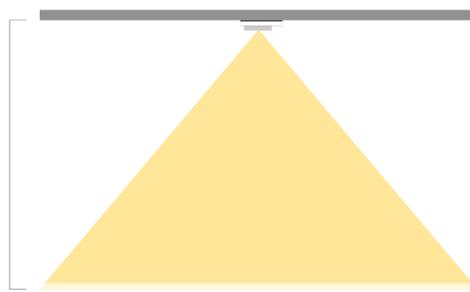


MS18 / RC18 Sensor

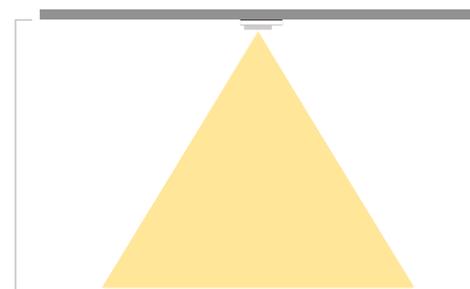
Rotate dial to adjust sensor height.



<12m

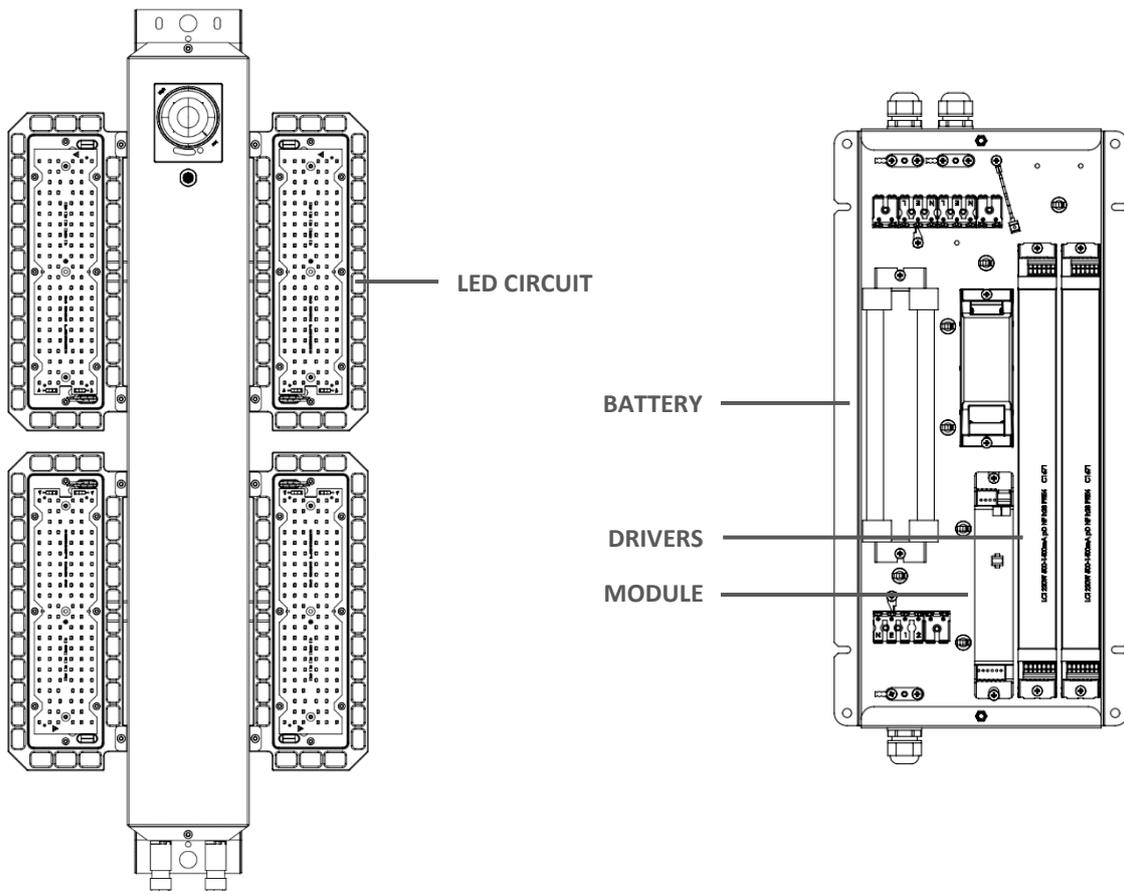


12 – 18m



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. Loosen both T25 screws to access remote gear. To access the sensor or E3 Indicator, loosen all the T25 screws on the cover. 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.