



# PRODUCT SPECIFICATION

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COLDBAY



## INTRODUCTION

For industrial freezers and cold storage units the Coldbay provides an ideal lighting solution where energy efficiency and minimum cost of ownership are paramount. The Coldbay is capable of operating in ambient temperatures of -40 degrees to + 25 degrees centigrade and is supplied with an optional remote gear pack for both mains drivers and emergency components. This allows for quick and simple maintenance of these parts outside the cold storage area whilst also ensuring that the luminaire emits the minimum of heat into the chilled environment. Where freezer construction does not allow for remote gear packs, integral control gear versions are available whilst standalone non maintained emergency luminaires can be offered to work alongside these to provide emergency lighting without remote batteries.

The Coldbay is supplied with an optional integral sensor providing presence detection without any need to modify the external wiring, only live, neutral and earth connections are required. The R11 sensor is also designed to operate in ambient temperatures as low as -40 degrees centigrade and allows the luminaire to be turned off or dimmed to a low level for safety lighting during periods of absence. Combining the efficiency of LED and integral sensor controls allows energy savings of 80-90% when compared to a traditional HID installation.

The luminaire housing is rated to IP65 and can be offered in a wide range of lumen outputs, three lens optics including open area, high rack and ultra high rack and also with basic, self test or autotest emergency. This range of options allows the luminaire to be configured to suit a range of mounting heights, racking aisles and open areas. We offer a range of wireless control systems providing localised grouping and control as well as comprehensive wireless solutions allowing both standard and emergency luminaires to be centrally monitored.



CE IP65 TM21: L90>60K HOURS / L80>90K HOURS 3 STEP MACADAM ELLIPSE

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## APPLICATION

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- › Warehouse / Storage

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## SPECIFICATION

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### CONSTRUCTION

- › Housing: 0.7mm CR4 steel
- › Finish: Polyester powder painted BS 00E55 matt white 60% gloss
- › Lens: Injection moulded polycarbonate lens
- › IP65
- › Remote gear housing for both emergency gear and mains drivers ensures that maintenance of these components can be undertaken outside the cold store area and also ensures the luminaire emits minimum heat to the chilled environment. Non emergency versions with integral gear are available if required.

### PERFORMANCE

- › Part L2 compliant
- › 3SCDM Three step Macadams ellipse
- › TM21: L90>60K Hours / L80>90K Hours
- › Up to 142 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
- Available with integral emergency with battery heater system for use at temperatures down to -25°C

## CONTROL

- Optional compatibility with a range of dimming systems including DALI, DSI and Switch Dimming
- Optional Integral R11 presence sensor
- Optional Integral Reacta-Air wireless presence and daylight regulations sensor
- Optional integral Reacta-Link for integration with Reacta-Link wireless installations

## INSTALLATION

- Suitable for surface installation
- Remote gear pack connects with two IP68 connectors for quick replacement of luminaire if required.

## VARIATIONS

- Available with a wide range of colour temperatures and renderings
- Available in a range of lumen outputs

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## IMAGES

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### PRODUCT IMAGES

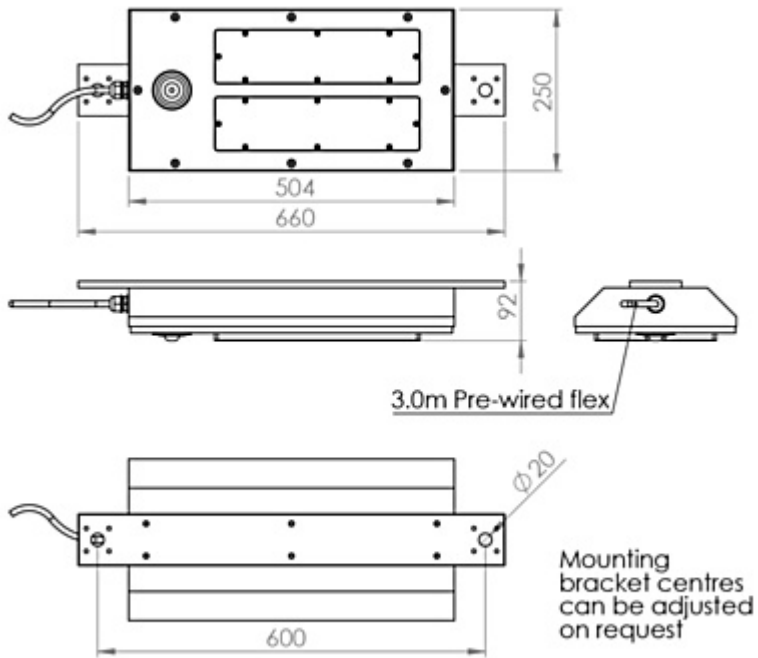


Coldbay

### PROJECT IMAGES

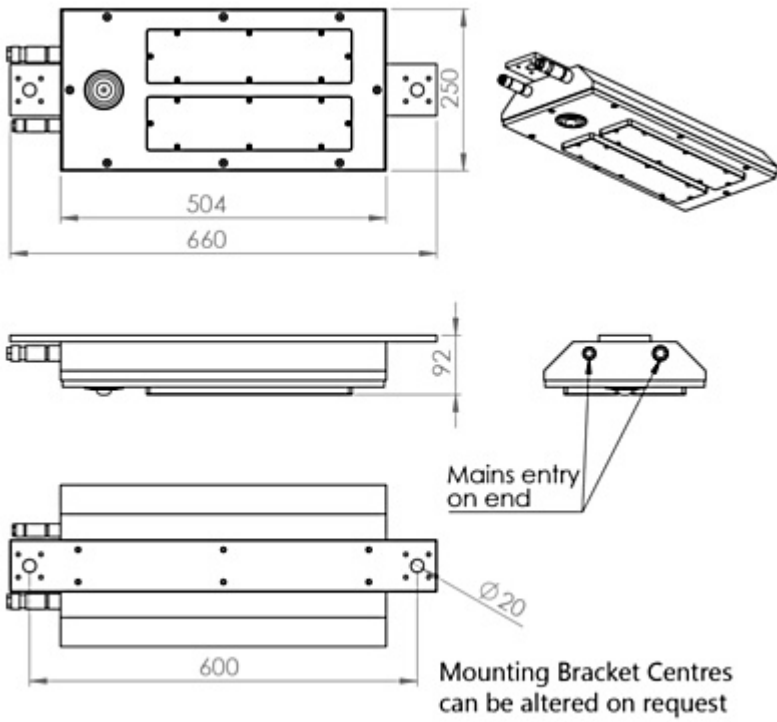


TECHNICAL

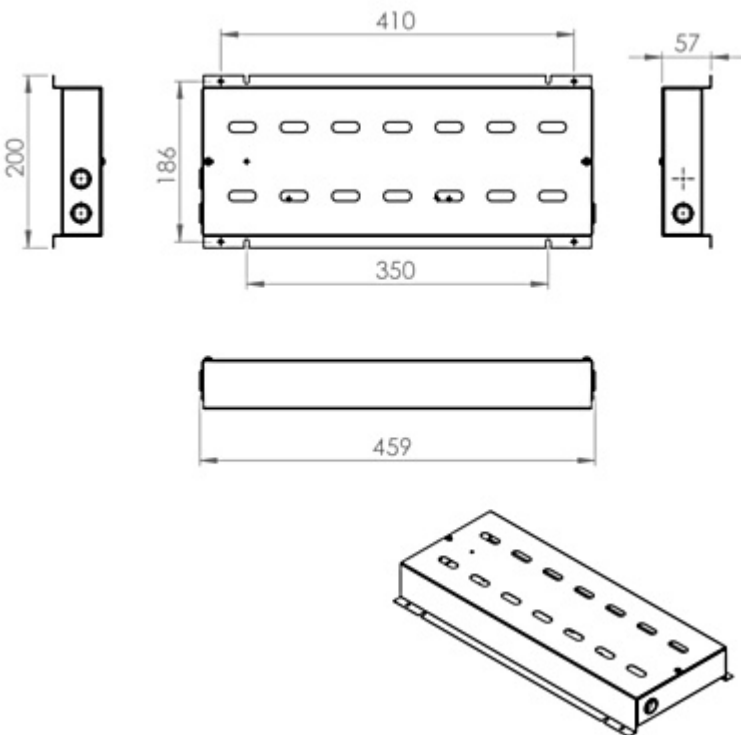


Coldbay Integral Control Gear





Coldbay Remote Control Gear



Coldbay Remote Gear Housing

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## WARRANTY

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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 AME LED, EXI LED, EXI2 LED, EXI Track, HBE LED, HBE2 LED, OAT2 LED, OEZ LED and Twinspot with Nickel Metal Hydride batteries are supplied with a one year warranty for parts and labour. Lithium variants of these ranges are supplied with a three year warranty for parts and labour with the exception of the AME2, EXI3, HBE3 and TWS IP65 L7 ranges which are supplied with a one year parts and labour warranty. TWS IP65 L7 in autotest and wireless variants are supplied with the standard three year lithium battery warranty.
- 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 RBGW, 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.**

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## ORDER CODES

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### LUMINAIRE



Code	Description	Power	Llm/W
CBLD L102 OA	Coldbay, 9,664llm, Open Area, Integral Control Gear, Colour 84	54.1W	179
CBLD L133 OA	Coldbay, 12,484llm, Open Area, Integral Control Gear, Colour 84	71.7W	174
CBLD L160 OA	Coldbay, 15,018llm, Open Area, Integral Control Gear, Colour 84	84.4W	178
CBLD L200 OA	Coldbay, 17,880llm, Open Area, Integral Control Gear, Colour 84	115.5W	155
CBLD L102 R OA	Coldbay, 9,664llm, Open Area, Remote Control Gear, Colour 84	54.1W	179
CBLD L133 R OA	Coldbay, 12,484llm, Open Area, Remote Control Gear, Colour 84	71.7W	174
CBLD L160 R OA	Coldbay, 15,018llm, Open Area, Remote Control Gear, Colour 84	84.4W	178
CBLD L200 R OA	Coldbay, 17,880llm, Open Area, Remote Control Gear, Colour 84	115.5W	155
CBLD L102 HR	Coldbay, 9,514llm, High Rack, Integral Control Gear, Colour 84	54.1W	176
CBLD L133 HR	Coldbay, 12,361llm, High Rack, Integral Control Gear, Colour 84	71.7W	172
CBLD L160 HR	Coldbay, 14,870llm, High Rack, Integral Control Gear, Colour 84	84.4W	176
CBLD L200 HR	Coldbay, 18,898llm, High Rack, Integral Control Gear, Colour 84	115.5W	164
CBLD L102 R HR	Coldbay, 9,514llm, High Rack, Remote Control Gear, Colour 84	54.1W	176
CBLD L133 R HR	Coldbay, 12,361llm, High Rack, Remote Control Gear, Colour 84	71.7W	172
CBLD L160 R HR	Coldbay, 14,870llm, High Rack, Remote Control Gear, Colour 84	84.4W	176
CBLD L200 R HR	Coldbay, 18,898llm, High Rack, Remote Control Gear, Colour 84	115.5W	164
CBLD L102 UHR	Coldbay, 9,431llm, Ultra High Rack, Integral Control Gear, Colour 84	54.1W	174
CBLD L133 UHR	Coldbay, 12,120llm, Ultra High Rack, Integral Control Gear, Colour 84	71.7W	169
CBLD L160 UHR	Coldbay, 14,580llm, Ultra High Rack, Integral Control Gear, Colour 84	84.4W	173
CBLD L200 UHR	Coldbay, 18,156llm, Ultra High Rack, Integral Control Gear, Colour 84	115.5W	157.1
CBLD L102 R UHR	Coldbay, 9,431llm, Ultra High Rack, Remote Control Gear, Colour 84	54.1W	174
CBLD L133 R UHR	Coldbay, 12,120llm, Ultra High Rack, Remote Control Gear, Colour 84	71.7W	169
CBLD L160 R UHR	Coldbay, 14,580llm, Ultra High Rack, Remote Control Gear, Colour 84	84.4W	173
CBLD L200 R UHR	Coldbay, 18,156llm, Ultra High Rack, Remote Control Gear, Colour 84	115.5W	157.1

## CONTROL

Code	Description
R11	Reacta 11, Presence, IP65, Low Temperature, 3-15M
RLI	Reacta-Link, Wireless Enabled Luminaire
RLS10	Reacta-Link Wireless, Presence, 5-10M
RLS15	Reacta-Link Wireless, Presence, 10-15M
RCS	Reacta-Control Wireless, Presence & Daylight, 2.5-4M

Please click [here](#) for full details on our wireless controls.

## EMERGENCY

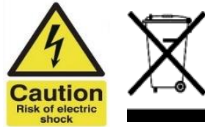
Code	Description
RLE3	Remote Lithium Standard Emergency 3 Hour
RLS3	Remote Lithium Self Test Emergency 3 Hour
RLA3	Remote Lithium Auto Test Emergency 3 Hour
RLA3RC	Remote Lithium Reacta-Control Emergency 3 Hour
RLSTR	Remote Lithium Reacta-Link Emergency 3 Hour
CB	Central Battery, Please Specify 50V, 110V or 230V when Ordering
HNE3	Integral Standard 3 Hour Emergency, Heater, Suitable for -25°C
HNS3	Integral Self Test 3 Hour Emergency, Heater, Suitable for -25°C
HNA3	Integral Autotest 3 Hour Emergency, Heater, Suitable for -25°C

## MISCELLANEOUS

Code	Description
C**	Select Colour Temperature and Rendering; C83, C84, C85, C865, C93, C94
LSF	Low Smoke Zero Halogen

# Coldbay Installation (Remote Gear)

220-240V / 50-60Hz  
IP65



**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 itself 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.

Terminal Labelling:	
<b>Power</b>	
L1	Switched Live
E	Earth
N	Neutral
<b>Emergency</b>	
L2	Unswitched Live
DA/AT3	DALI Autotest
DA/AT3	DALI Autotest
<b>Dimming</b>	
-D1/DA	Analogue/DSI/DALI
+D2/DA	Analogue/DSI/DALI
L3	Switch Dim / Corridor Function

**1.** Fix luminaire head to the ceiling using suitable screws (not provided) and the plastic spacers provided. The 20mm hole in the fixing bracket should be aligned with the conduit in the ceiling.

**2.** Feed the cabling up through the conduit.

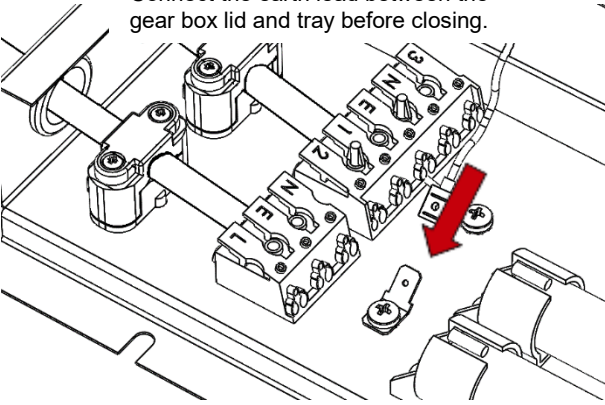
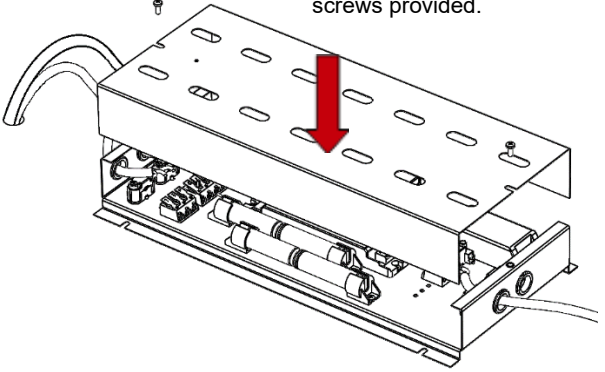
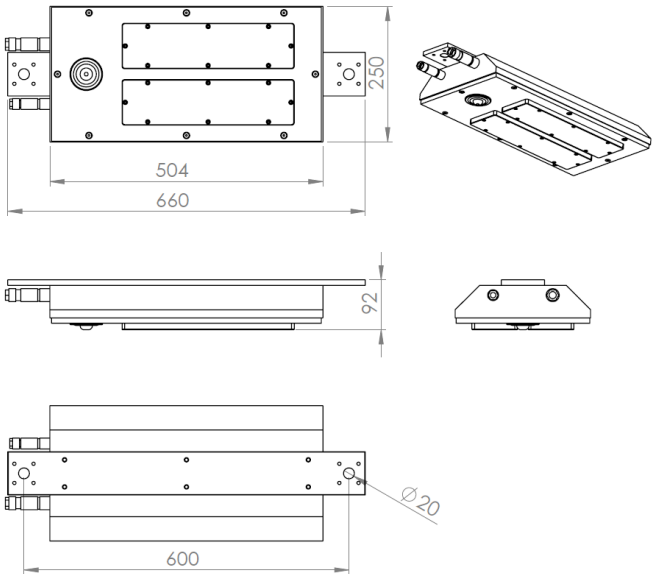
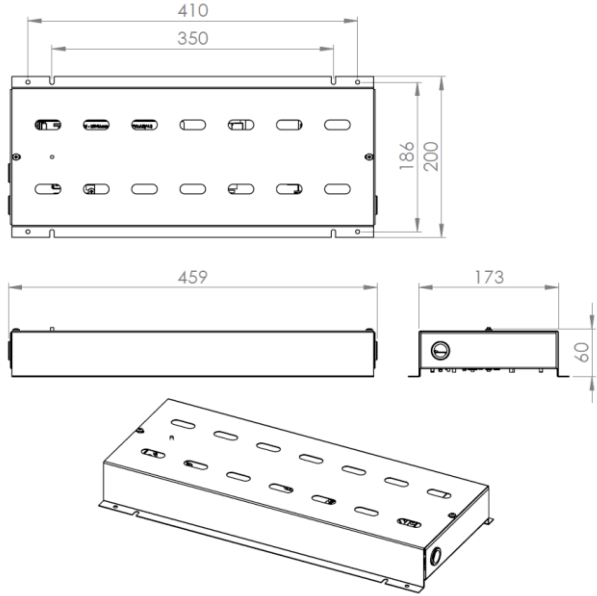
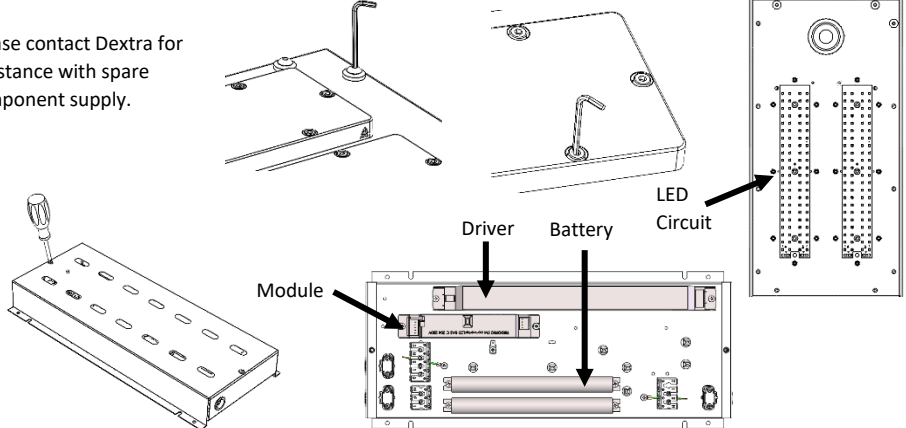
**3.** Connect the luminaire head cabling to the remote gear box. Ensure cable restraint is used.

**4.** Close attention should be paid to the labelling of the cables. Flex 1 and Flex 2 cables should be connected to respective terminal blocks.

**5.** Connect the plugs to the luminaire head sockets.

**6.** Feed mains cabling into the gear box and wire into respective terminals. Ensure cable restraint is used.

## Coldbay Installation (Remote Gear)

<p><b>7.</b> Connect the earth lead between the gear box lid and tray before closing.</p> 	<p><b>8.</b> Replace the gear box lid with screws provided.</p> 
<p><b>9.</b></p> <p><b>Operating Temperatures:</b> -40°C to +25°C</p>	<p><b>10.</b></p>
	
<p><b>Maintenance</b></p> <ol style="list-style-type: none"> <li>1 Disconnect luminaire before undertaking any maintenance or cleaning.</li> <li>2 Cleaning should be undertaken on external parts of the luminaire only using a slightly damp lint free cloth.</li> <li>3 Use an Allen Key to remove all screws from frame.</li> <li>4 To access LED circuit use an Allen Key to remove screws from lens.</li> <li>5 Use a pan pozi screwdriver to remove lid from remote box and components.</li> <li>6 Please contact Dextra for assistance with spare component supply.</li> </ol> 	

# Coldbay Installation (Integral Gear)

220-240V / 50-60Hz  
IP65

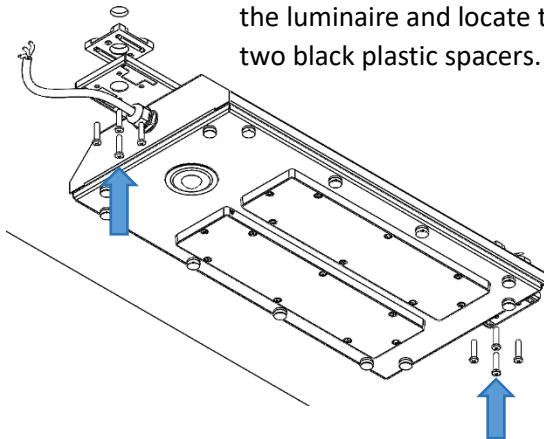
**Terminal Labelling:**

<b>Power</b>	
L1	Switched Live
E	Earth
N	Neutral
<b>Emergency</b>	
L2	Unswitched Live
DA/AT3	DALI Autotest
DA/AT3	DALI Autotest
<b>Dimming</b>	
-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.

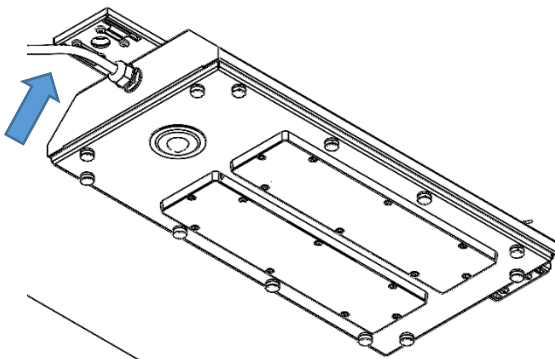
**1.** For surface mounting, unpack the luminaire and locate the two black plastic spacers.



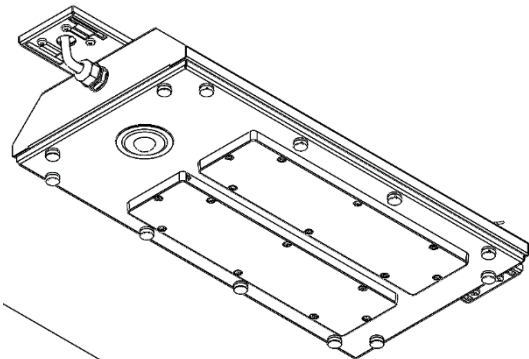
**2.** Ensure the ceiling conduit (if present) is aligned with the 20mm hole in the mounting bracket. Fix the luminaire to the ceiling using suitable screws (not supplied).



**3.** Feed the pre-wired cable up through the ceiling and connect to the mains supply.



**4.** Ensure any excess cabling is neatly stored behind the ceiling.



**5.**

Operating Temperatures:  
-40°C to +25°C

**6.**

Installation is complete.

# Coldbay Installation (Integral Gear)

## Maintenance

- 1 Disconnect 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 Use an Allen Key to remove screws from frame.
- 4 To access LED circuits use an Allen Key to remove screws from lens.
- 5 Use a pan pozi screwdriver to remove components.
- 6 Please contact Dextra for assistance with spare component supply.

