

## INSTALLATION / WARRANTY INSTRUCTIONS

**PRODUCT BRAND** - PIERLITE

**PRODUCT NAME / CODES** - Pathfinder2 LED Emergency Light/ PFDLED-RL2; PFDLED-RLBK2

**PLEASE READ THESE INSTALLATION INSTRUCTIONS CAREFULLY BEFORE INSTALLING OR MAINTAINING THIS EQUIPMENT. THE PRODUCT IS DESIGNED FOR INSTALLATION AND MAINTENANCE IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS (AS3000) AND LOCAL REGULATIONS (WHERE APPLICABLE), BY AN AUTHORISED AND LICENCED ELECTRICIAN.** THE INSTALLATION INSTRUCTIONS WERE CORRECT AT THE TIME OF PRINT. TO REFLECT CHANGES IN TECHNOLOGY AND AUSTRALIAN STANDARDS; PIERLITE RESERVES THE RIGHT TO AMEND THE INSTRUCTIONS WITHOUT NOTICE. UPDATED GUIDELINES CAN BE FOUND ON THE RELEVANT BRAND WEB SITE. **IMPORTANT** - THE PRODUCT MUST BE MAINTAINED AND OPERATED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, FAILURE TO DO SO MAY DAMAGE THE PRODUCT AND SERVICES. IT IS STRONGLY RECOMMENDED THAT THIS IMPORTANT NOTE BE COMMUNICATED TO THE OWNER AND OR OPERATOR OF THE INSTALLATION AT THE TIME OF SITE COMMISSIONING. GOOD PRACTICE DOES NOT RECOMMEND THE 24/7 USE OF PRODUCTS WITHOUT THE APPLICATION OF SUITABLE SWITCH CYCLE INTERVALS. FURTHERMORE, WITH THE OMISSION OF NOMINATED SURVIVAL CURVES AND OR RECOMMENDED OPERATING HOURS, PRODUCT DESIGN EXPECTATIONS PROVIDE FOR A CONTINUAL DAILY USAGE OF 6 HOURS FOR RESIDENTIAL APPLICATIONS AND A CONTINUAL DAILY USAGE OF 12 HOURS FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS. ALL PRODUCTS MUST BE THOROUGHLY CLEANED ON A REGULAR BASIS AT INTERVALS THAT REFLECT IN THE INSTALLATION ENVIRONMENT, ENSURING THE OPTICAL PERFORMANCE, TOGETHER WITH THE ELECTRICAL, MECHANICAL AND STRUCTURAL INTEGRITY AS DESIGNED, IS MAINTAINED THROUGHOUT THE SERVICE LIFE OF THE PRODUCT.



For the latest product online reference data, simply install and activate a QR code scanner application on your smartphone. For more information refer brand web.



### 1. PRODUCT SPECIFICATION:

Product brand - Pierlite  
Type of Protection - Class II  
IP Rating - for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated. - IP 20  
Nominal design Voltage - 240V  
Luminaire Specification:

Product Code	Wattage	Line Current	Inrush Current
PFDLED-RL2	Max 6.5W	50mA Max	15A Max / 0.002µs
PFDLED-RLBK2	Max 6.5W	50mA Max	15A Max / 0.002µs

Important – when installing electronic or HID lighting equipment, the installer must consider the in-rush start current (if any) as documented on the control gear identification label when selecting appropriate circuit controls or protective devices.

Power factor - 0.6  
Nominal Freq. (Hz) - 50 Hz  
Rated Maximum Ambient Temperature - 40°C  
Suitable for direct mounting on flammable surfaces - NO  
Dimmable (if relevant refer brand web for approved list) - NO  
Installation orientation - Ceiling Mount  
Designed application - Interior  
Rated average design life - 50,000 hours (to L70)

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

## 6. INSTALLATION / SPECIAL CONDITIONS (relevant only for products approved for such an installation):

**(a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.

**(b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.

**(c) interior highbay products** must be vertically suspended. The method of suspension (chain etc) must be able to support at least 5 times the total weight of the fitting. Do not install where air movement will cause the fitting to swing about, causing wear and tear of attachment points. Luminaires should be installed where access for maintenance is practical and allows for maintenance to be completed in accordance with the manufacturer's recommendations.

**(d) interior (downlight) products** must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

## 7. MAINTENANCE:

**(a)** The supply must be isolated before opening or accessing the luminaire. Product maintenance is IMPORTANT and is critical to the products designed performance. The product is to be maintained in accordance with the manufacturer's instructions. For the latest product maintenance guides please go to relevant brand web site. Pierlite is not responsible for any product not maintained in accordance with the recommended procedure or intervals. **(b) lamps (where provided):** The product is designed with the supplied (LEDs) / LAMP/s and it is strongly recommended that any LAMP / (LEDs) changes (if any) be made in accordance with the type, colour and brand supplied. For recommended LAMP / LED maintenance or operating guides (inclusive of recommended product switch cycles and mandatory run-in procedures for HID and Fluorescent lamps when used with dimming circuits), Pierlite recommends the application of the lamp manufacturer's operating guidelines, which can be found on manufacturer's website. Pierlite is not responsible for the product performance of alternative lamp/s used. As a member of FluroCycle, we encourage recycling of lamps and components.

**(c) battery (where provided):** The battery is designed with a rated average battery design life of 50,000 hours in standby mode. The battery is supported with a standard 4 year warranty; conditional of the product being maintained and operated in accordance with the manufacturer's guidelines and tested in accordance with AS/NZS2293. For guidelines see product installation instructions or visit the relevant brand web site.

**(d) for products supplied with glass visors or covers,** do not operate the product with a damaged visor or cover; it is recommended the product be turned off, area surrounding the product vacated and the damaged glass replaced by a professional installer immediately.

## 8. WARRANTY INSTRUCTIONS: For the purpose of warranty claims (if any) the following instructions apply:

**Warranty components** – THE PRODUCT, (identified as the THE PRODUCT only). **Warranty period** - The above components are provided with a warranty of Four (4) year/s against manufacturing defects or failure to perform to specifications for products installed by an authorised installer in accordance with the manufacturer's installation instructions and which have not been subject to incorrect operation or maintenance, unauthorised modification or damage arising from any intervening cause.

**Warranty reference** - The warranty reference date commences from the date of purchase. **Warranty point of contact** – Pierlite Pty Ltd, 96 Gow Street Padstow NSW 2211, phone T 02 9794 9300 contact – Pierlite After Sales Support.

**Warranty claim procedure** – For the purpose of making a claim the customer must:

1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
  2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
  3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense.
- Consumer Contracts** - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise; - (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** – these Warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the Warranty components.

## INSTALLATION INSTRUCTION FOR Pathfinder2 LED Emergency Light

**Product codes:** PFDLED-RL2; PFDLED-RLBK2

### Service & Operation

Normal Operation: Non - Maintained Emergency Operation.

Battery: Sealed Lithium Iron Phosphate (LiFePO4) rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

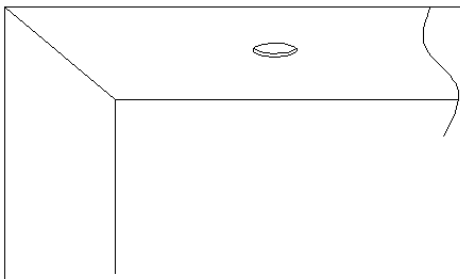
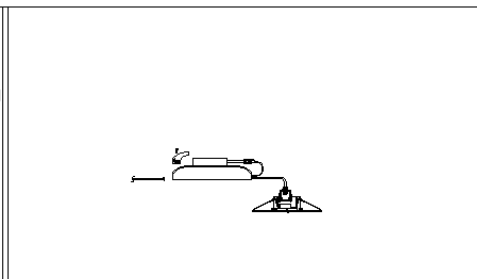
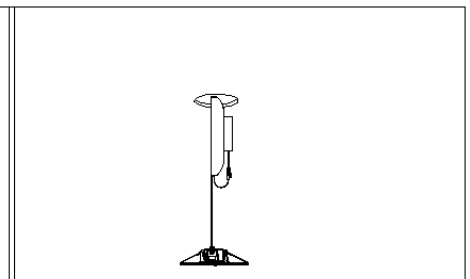
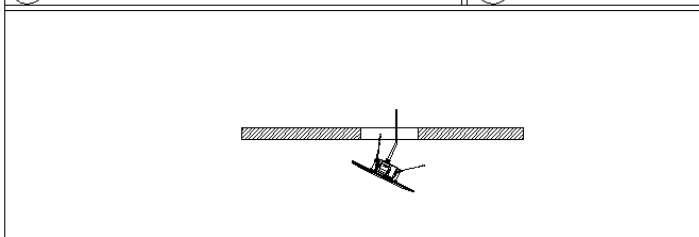
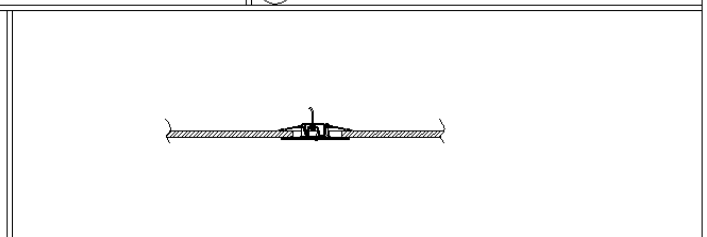
In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours

Discharge Duration: 2 Hours (Initial Test)

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply. Please ensure battery plug is connected to the inverter battery terminal.

### Installation

 <p>1. Cut a Ø66mm installed hole in the installation site.</p> <p>①</p>	 <p>2 After connecting the driver with the battery and the light head, connect the whole fitting with the AC power. Please be cautious during the connecting process, DON'T touch all the electronic components directly!</p> <p>②</p>	 <p>3 After connecting all wires, put the driver, battery and all other components in the installation hole.</p> <p>③</p>
 <p>4 Insert the light head into the installation hole.</p> <p>④</p>	 <p>5 Ready For commissioning</p> <p>⑤</p>	

### Self Test :

- The emergency driver will run in self-test mode if it is not connected to DALI.
- Commissioning Test will be run after 48 hours of continuous power.
- Duration Test to test for full 120 minutes.
- The results will be displayed on the status indicator for 7 days after this test completes. From that point forward the unit will run a 10 second function test every 4 weeks and a 90 minute Discharge Test every 26 weeks. Subsequent Duration Tests run for 90 minutes.
- If the battery is replaced then the unit will automatically run another Commissioning Test after 48 hours.

## SELF TEST - Dali Version Indicator Color Instruction

Indicator Colour	Status	Meaning
Green Solid	Device ok	all OK, AC power is present, battery is connected & charging
Green fast flash (0.1s on, 0.1s off)	Function test in progress	AC power is present, functional test in progress
Green slow flash (1s on, 1s off)	Duration test in progress	AC power is present, discharge test in progress
Green very slow flash (4s on, 1s off)	Automatic duration test passed	AC power is present, automatic discharge test has completed within the last 7 days and was ok
Red Solid	Emergency LED Fault	Emergency LED is open circuit, short circuit or has otherwise failed in some way. fault can indicate the live status or the result of a test
Red fast flash (0.1s on, 0.1s off)	LED Driver fault LED	Unit unable to deliver current to emergency LED. fault can indicate the live status or the result of a test
Red slow flash (1s on, 1s off)	Battery fault	Battery failure (battery failed the duration or functional test, battery appears to be defective, battery has incorrect voltage). fault can indicate the live status or the result of a test .
Red/green alternating	Identification mode	The unit is in unit identification mode
Red/Green Off	No power available	AC power is lost, unit in emergency mode

## INSTALLATION / WARRANTY INSTRUCTIONS

**PRODUCT BRAND** - PIERLITE

**PRODUCT NAME / CODES** - Pathfinder2 LED Emergency Light/ PFLED-RL2; PFLED-RLBK2

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### 1. PRODUCT SPECIFICATION:

Product brand - Pierlite  
 Type of Protection - Class II  
 IP Rating - for interior products, the IP rating nominated is "from below the ceiling" unless specifically nominated. - IP 20  
 Nominal design Voltage - 240V  
 Luminaire Specification:

Product Code	Wattage	Line Current	Inrush Current
PFLED-RL2	Max 6.5W	30mA Max	10A Max / 0.002µs
PFLED-RLBK2	Max 6.5W	30mA Max	10A Max / 0.002µs

Important – when installing electronic or HID lighting equipment, the installer must consider the in-rush start current (if any) as documented on the control gear identification label when selecting appropriate circuit controls or protective devices.

Power factor - 0.4  
 Nominal Freq. (Hz) - 50 Hz  
 Rated Maximum Ambient Temperature - 40°C  
 Suitable for direct mounting on flammable surfaces - NO  
 Dimmable (if relevant refer brand web for approved list) - NO  
 Installation orientation - Ceiling Mount  
 Designed application - Interior  
 Rated average design life - 50,000 hours (to L70)

**2. APPROVALS:** The RCM marking of this product applies to AS/NZS CISPR15 (EMC) "Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment". This product is designed to conform to AS/NZS60598 "Luminaires, general requirements and tests".



**3. STORAGE:** Prior to installation products are to be stored in cool and dry conditions.

**4. APPLICATION:** The installation application and orientation of the product is designed in accordance with the nominated product IP rating, class designation and these installation instructions. Installation environments and operating conditions beyond these instructions are not recommended.

**5. INSTALLATION / GENERAL:** Installation of the product is to be completed by an authorized and licensed electrician, in accordance with these instructions, relevant Australia standards and local regulations (where applicable). Termination of product

wiring, together with the installation of the product must be in a manner and orientation that maintains the integrity of the designated IP rating of the product For electronic control equipment (when supplied) DO NOT MEGGER between A and N.

#### **6. INSTALLATION / SPECIAL CONDITIONS** (relevant only for products approved for such an installation):

- (a) products installed in high wind environments** must have suitable installation / fastening methods applied to ensure the product's mounting points are not damaged through, corrosion, constant vibration and or movement. Exterior products are designed with precise vertical aiming limits, which should not be exceeded. Any vertical floodlight aiming requirements should be specifically validated in writing with the relevant brand before consideration.
- (b) products installed in corrosive or salt laden environments** require special consideration and such; specific product selection, inclusive of suitable fastening methods and extensive ongoing maintenance of products installed in these environments require professional advice. It is essential that all aspects of the product selection, material specification and maintenance are specifically designed for such use and a cleaning program be adopted that maintains the design integrity of the product.
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- (d) interior (downlight) products** must be installed to ensure the lamp unit or the driver (if supplied) are not covered with any combustible materials or insulation; minimum spacings nominated for these materials are mandatory. Unless otherwise specified, minimum clearances are in accordance with AS3000 requirements. The product is not designed for installation environments which restrict conventional airflow movements eg: enclosed boxes or concrete profiles. For dimming purposes please see the relevant product brand web site for the dimming compatibility chart. When mounting multiple fixtures to conductive structures, it is recommended that the structure is earthed. The mounting facilities provided for the transformer/driver (if any), need only be utilized if in the application of the product is required by AS3000. IP ratings stated (if any) are from below the ceiling unless stated otherwise and the installation of the product must be in a manner that maintains the integrity of the relevant IP rating.

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1. Contact the "point of contact" above and upon provision of proof of purchase the customer will receive a goods return advice (GRA) number.
  2. At the customer's expense, collect and return the goods to the "point of contact" with the issued GRA number.
  3. Upon receipt of the goods, Pierlite will review the claim and if found to be accepted, Pierlite will return a replacement product to the customer to install at the customer's expense. Alternatively if the claim is rejected, the customer may request the return of the goods at their expense.
- Consumer Contracts** - The benefits to the customer given by the Pierlite warranty are in addition to other rights and remedies of the customer if the goods are the subject of a Consumer Contract under the Australian Consumer Law. In that event the following statement is required to be brought to the Consumer's attention: - *Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.* **Limitation of Liability** – if the goods are not purchased by the customer under a Consumer Contract within the Australian Consumer Law then but not otherwise; - (a) the Company is not liable in tort for any loss or damage suffered by the customer or by any third party; and (b) in no circumstances is Pierlite liable to the customer or to any third party for any loss of profits, loss of anticipated savings, economic loss or interruption of business or for any indirect or consequential loss (Consequential Loss). **Terms of Sale** – these Warranty provisions are in substitution for any inconsistent provisions in the Pierlite Terms and Conditions of Sale in so far as they apply to the Warranty components.

## INSTALLATION INSTRUCTION FOR Pathfinder2 LED Emergency Light

**Product codes:** PFLED-RL2; PFLED-RLBK2;

### Service & Operation

Normal Operation: Non - Maintained Emergency Operation.

Battery: Sealed Lithium Iron Phosphate (LiFePO<sub>4</sub>) rechargeable battery pack. As per AS/NZS 2293, it is required that the battery pack is discharged and recharged at least once every 6 months.

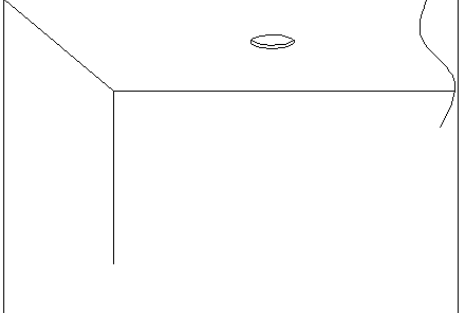
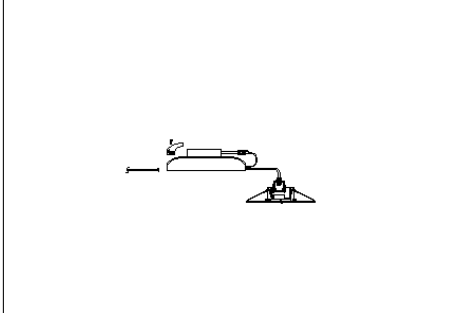
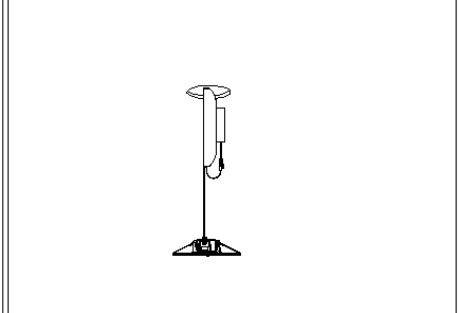
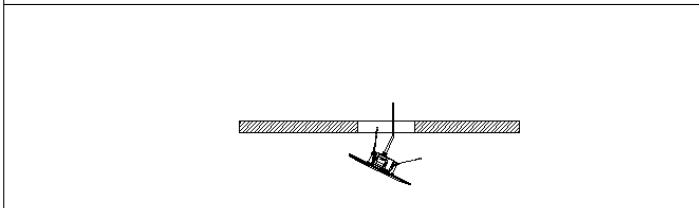
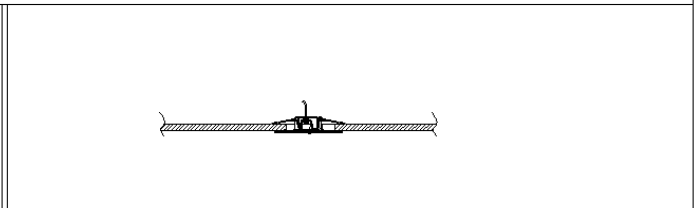
In case of a replacement, same brand and type of battery pack must be used. Allow 24 hours charging time before carrying out any discharge tests.

Charge Duration: 16 Hours

Discharge Duration: 2 Hours (Initial Test)

Test Switch: If manual test switch pressed, the fixture will operate from its battery supply. Please ensure battery plug is connected to the inverter battery terminal.

### Installation

 <p>1. Cut a Ø66mm installed hole in the installation site.</p> <p>①</p>	 <p>2 After connecting the driver with the battery and the light head, connect the whole fitting with the AC power. Please be cautious during the connecting process, DON'T touch all the electronic components directly!</p> <p>②</p>	 <p>3 After connecting all wires, put the driver, battery and all other components in the installation hole.</p> <p>③</p>
 <p>4 Insert the light head into the installation hole.</p> <p>④</p>	 <p>5 Ready For commissioning</p> <p>⑤</p>	

## None-Dali Version Indicator Color Instruction

Indicator colour	Status	Meaning
Red Solid	Battery Charging	all OK,AC power is present, battery is connected&charging
Green Solid	Battery Full	AC power is present, battery is connected and 100% power
Red Flash	Battery fault	battery appears to be defective, battery has incorrect voltage
Red/Green Off	No power available	AC power is lost, unit in emergency mode

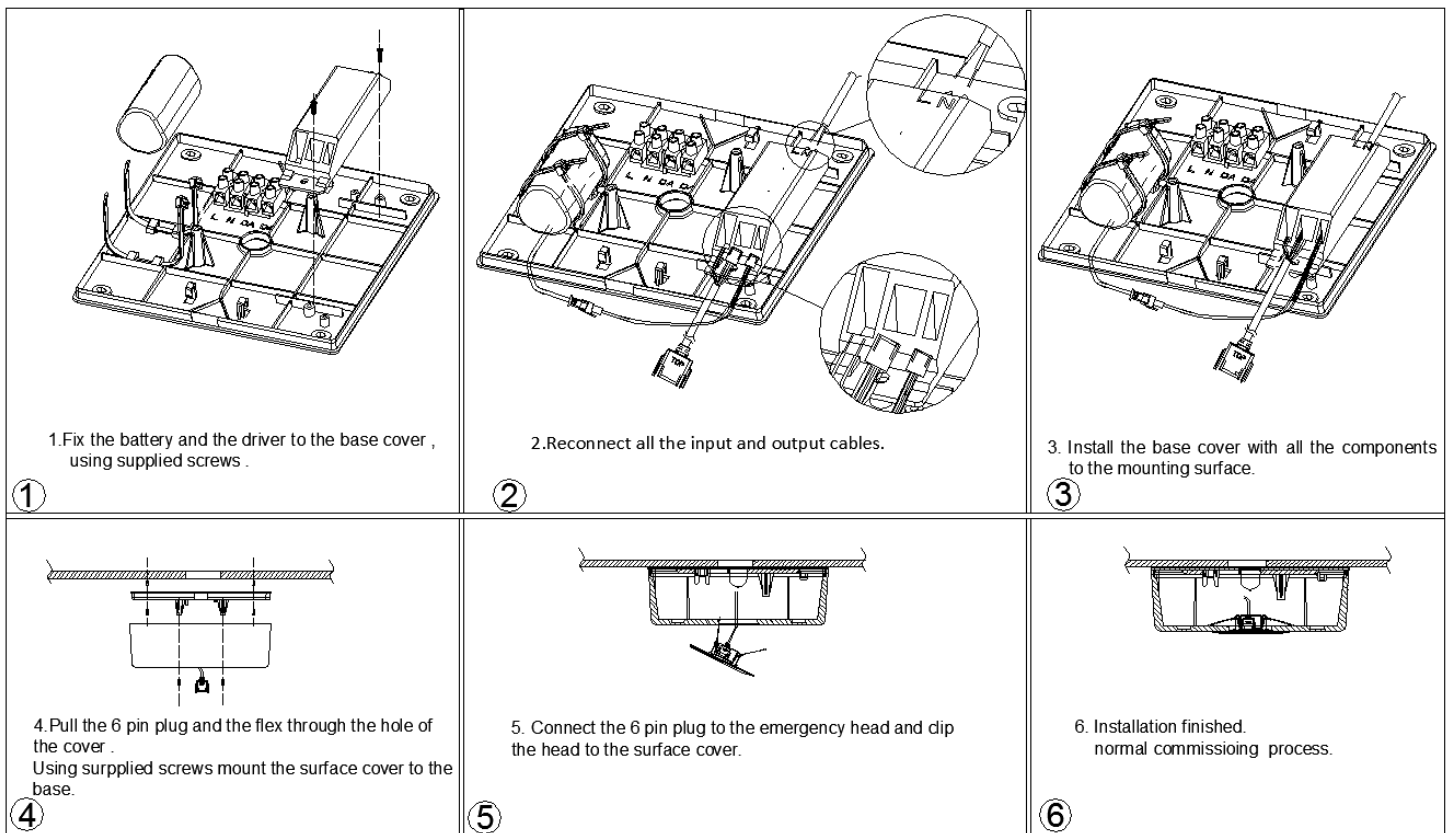


## INSTALLATION INSTRUCTION FOR CEILING MOUNTED KIT Pathfinder2 LED Emergency Light

**Notes: Surface Mounted kit sold separately.**  
**Product codes: PFSKIT-L2; PFSKIT – LBK2**

This installation instruction to be read in conjunction with the authorized products:  
 PFLED-RL2; PFLED-RLBK2; PFDLED-RL2; PFDLED-RLBK2

Instruction for the installation using PFDLED-RL2; PFDLED-RLBK2

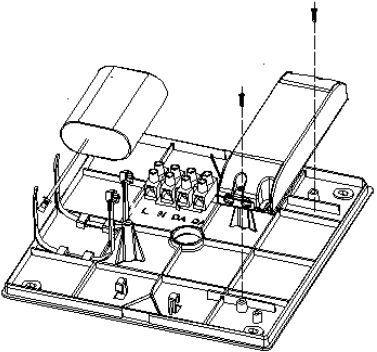
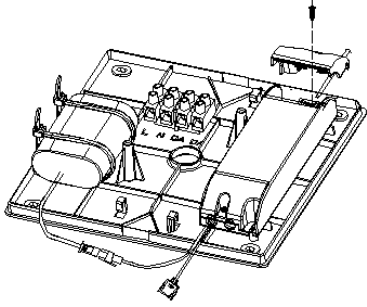
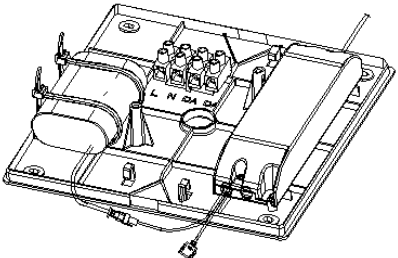
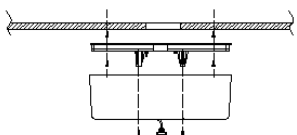
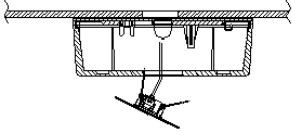
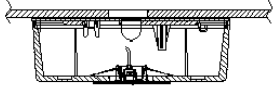


## INSTALLATION INSTRUCTION FOR CEILING MOUNTED KIT Pathfinder2 LED Emergency Light

**Notes: Surface Mounted kit sold separately.**  
**Product codes: PFSKIT-L2; PFSKIT – LBK2**  
**Instruction For the Installation Using**

This installation instruction to be read in conjunction with the authorized products:  
PFLED-RL2; PFLED-RLBK2; PFDLED-RL2; PFDLED-RLBK2

Instruction for the installation using PFLED-RL2; PFLED-RLBK2

 <p>1. Fix the battery and the driver to the base cover , using supplied screws .</p> <p>①</p>	 <p>2. Reconnect all the input and output cables.</p> <p>②</p>	 <p>3. Install the base cover with all the components to the mounting surface.</p> <p>③</p>
 <p>4. Pull the 6 pin plug and the flex through the hole of the cover . Using supplied screws mount the surface cover to the base.</p> <p>④</p>	 <p>5. Connect the 6 pin plug to the emergency head and clip the head to the surface cover .</p> <p>⑤</p>	 <p>6. Installation finished. normal commissioning process.</p> <p>⑥</p>