

INSTALLATION / WARRANTY INSTRUCTIONS

PRODUCT BRAND: PIERLITE

PRODUCT NAME: Nexus Adverse Bulkhead

PRODUCT CODE: NXABLS3, NXABLS4, NXABLSA, NXABLS3M2, NXABLS4M2, NXABLSAM2, NXABLS3M4, NXABLS4M4, NXABLSAM4

Issue Date: 22/02/2023

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 (AS/NZ3000), by an authorised and licensed electrician. The installation instructions were correct at the time of print. To reflect changes in technology and Australian and New Zealand standards; Pierlite reserves the right to amend the instructions without notice. Updated guidelines can be found on relevant brand web site.



1. PRODUCT SPECIFICATION:

Product	NXABLS3 NXABLS3M2 NXABLS3M4	NXABLS4 NXABLS4M2 NXABLS4M4	NXABLSA NXABLSAM2 NXABLSAM4
Type of protection	Class I luminaire		
Type of protection	IP66		
IK rating	IK10		
IC Rating	N/A		
Nominal voltage	220 to 240Vac		
Nominal frequency	50/60 Hz		
Number of wattages per fitting	3		
Available wattages	Refer to section 4		
Power factor	>0.87 to >0.96		
Surge protection rating	L-N 10KV/5KA, L-E: 10KV/5KA, N-E: 10KV/5KA		
Inrush current	Cold start 10A(twidth=200µs Measured at 50% Ipeak) at 230VAC		
Earth leakage	≤0.7mA		
Rated operating ambient temperature	0 to +50°C		
LED lifetime	<ul style="list-style-type: none"> Rated >72,000 hours (L70/B10) +50°C Calculated >139,000 hours (L70/B10) @ +50°C Calculated >42,000 hours (L90/B10) @ +50°C 		<ul style="list-style-type: none"> Rated >60,000 hours (L70/B10) +50°C Calculated >60,000 hours (L70/B10) @ +50°C
Emergency battery lifetime	50,000 hours		
Colour temperature	3000K	4000k	Amber
Colour rendering index (CRI)	>80	>80	>55
LED control gear	DALI / Lumen select		
Available in emergency	Yes, DALI and self-testing		
Emergency battery technology	2-hour Or 4-hour Lithium Iron Phosphate (LiFePO4)		
Electrical connection	6.0mm terminal block		
Cable entry	4x 20mm (ends) and 2x 25mm (sides) with 1.5mm Pitch		
Cable gland	2x 20mm cable gland – accepts cable diameter size 6mm – 12mm +/- 0.5mm		
Installation type	Surface mounted – Wall or ceiling		
Dimensions (LxWxH)	Refer to table in section 6		
Net weight of luminaire	Refer to table in section 6		
Warranty	Luminaire: 5 years Emergency Battery: 4 years		
Suitability	Indoor and outdoor		
Suitable for rough service	Yes		

2. CONSUMABLES

Description	QTY Required Per Fitting	Brand	Component Part Number	Dimensions (LxWxH) mm
2 hour duration 6.4V 3200mAH Side by side pack	1	Pierlite	DGLCEM3200/2L21	70 x 53 x 31
4 hour duration 6.4V 6000mAH Side by side pack	1	Pierlite	DGLCEM6000/4L22	140x53x31

3. SERVICE & OPERATION (EMERGENCY VERSION)

Normal Operation: 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: M2 = 2 Hours for standard emergency or M4 = 4 hours for rail/heavy industry emergency (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.

Emergency Classification: NXABLS3M2 C0/C180: D63 & C90/C270: D63
NXABLS4M2 C0/C180: D80 & C90/C270: D63
NXABLS4M2 C0/C180: D63 & C90/C270: D63

WARNING: ALL MAINTENANCE, SUCH AS BATTERY CHANGE ON THIS LUMINAIRE, TO BE PERFORMED BY QUALIFIED PERSONNEL ONLY, DE-ENERGISE ALL SUPPLIES BEFORE MAINTENANCE.

WARNING: The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

4. LUMEN SELECT TABLE (contractor selectable output)

Pierlite's lumen select products allows all licensed electricians to purchase one luminaire that can be set as multiple fixed wattages/fixed lumen outputs. By offering this capability within one fitting it provides the following benefits

- One fitting multiple fixed outputs
- Less stocked items
- Easy to change settings
- IES files available for all available for wattages shown in the above table
- No control system or software required to change fixed output

The lumen output can be altered by changing the driver dip switches from the factory default setting to the driver milli-amps as specified in the table. Dip switches are located next to suspension hook of the Highbay.

Product Code#	Power (W)	Emergency Wattage (W)	Line Current (A)	Lumen Output (Lm)	CCT (K)	Optics	Emergency
NXABLS3	65	N/A	0.28	6900	3000K	T5	No
	50		0.22	5600			
	35		0.16	3900			
NXABLS4	65	N/A	0.28	7700	4000K	T5	No
	50		0.22	6200			
	35		0.16	4300			
NXABLS4	65	N/A	0.28	6300	Amber	T5	No
	50		0.22	5000			
	35		0.16	3500			
NXABLS3M2 NXABLS3M4	65	5	0.29	6900	3000K	T5	Yes
	50		0.24	5600			
	35		0.18	3900			
NXABLS4M2 NXABLS4M4	65	5	0.29	7700	4000K	T5	Yes
	50		0.24	6200			
	35		0.18	4300			
NXABLS4M2 NXABLS4M4	65	5	0.29	6300	Amber	T5	Yes
	50		0.24	5000			
	35		0.18	3500			

Note: Make sure to disconnect power before changing a DIP switch on the luminaries. Setting the DIP switches according to the above ONLY. All other settings may affect the luminaries' performance. After setting, secure the silicon cover over the DIP switches.

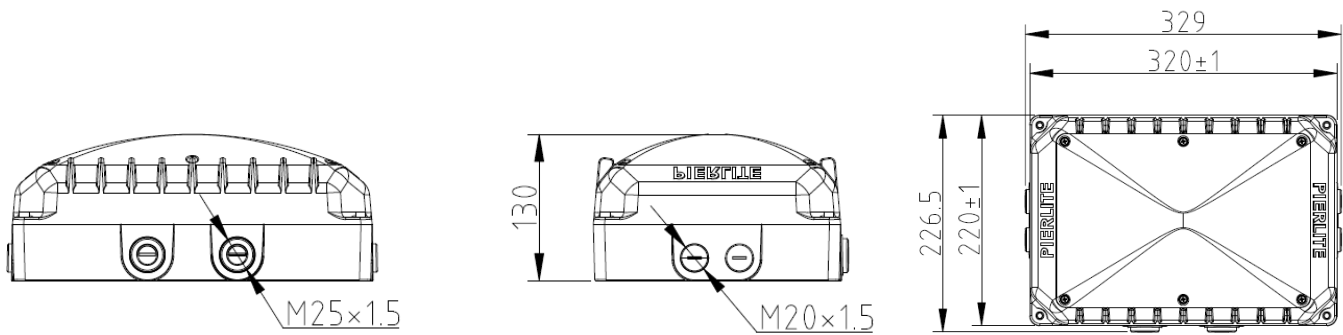
5. DALI CONTROL GEAR: The LED driver and emergency control gear are both controllable through the DALI RAPIX system. A DALI connection is not required in a non-systemized electrical system. If DALI is not required do not connect it.

Note: When designing the DALI system please refer to the table below for the number of DALI addresses.

Control gear	Function	Number of Addresses
LED Driver	Dimming, on/off & feedback	1
Emergency Inverter	Testing & Reporting	1

6. LINE DIAGRAMS AND DIMENSIONS

Length (mm)	Width (mm)	Height (mm)	Weight in (kg)
329	227	130	3.6



7. 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.

Installation:

Tools Required

- M5 torx screw, M6 hex screwdriver
- 2mm, 4mm, 8mm, 10mm flat blade screwdriver
- 3mm, 5mm phillips screwdriver

1. Drill holes in the ceiling and install expansion bolts for 4XM6 screws as next drawings
2. Remove 4XM5 torx screws from the front cover and body to open the luminaire
3. Lock the body base into the ceiling by 4pcs M6 screws
4. Open the gear try with 5mm Phillips screwdriver, Set the luminaire output(65W/50W, 35W) and fix the gear tray back. If use the default set 65W, neglect this step.
5. Fix the SS cable grand which is attached as accessory as requirement (2pcs of M20).
6. Connect electrical cables as specified by all Australian and New Zealand standards, must be installed by a licensed electrician. Ensure the earth is connected

Non-emergency luminaire electrical connections

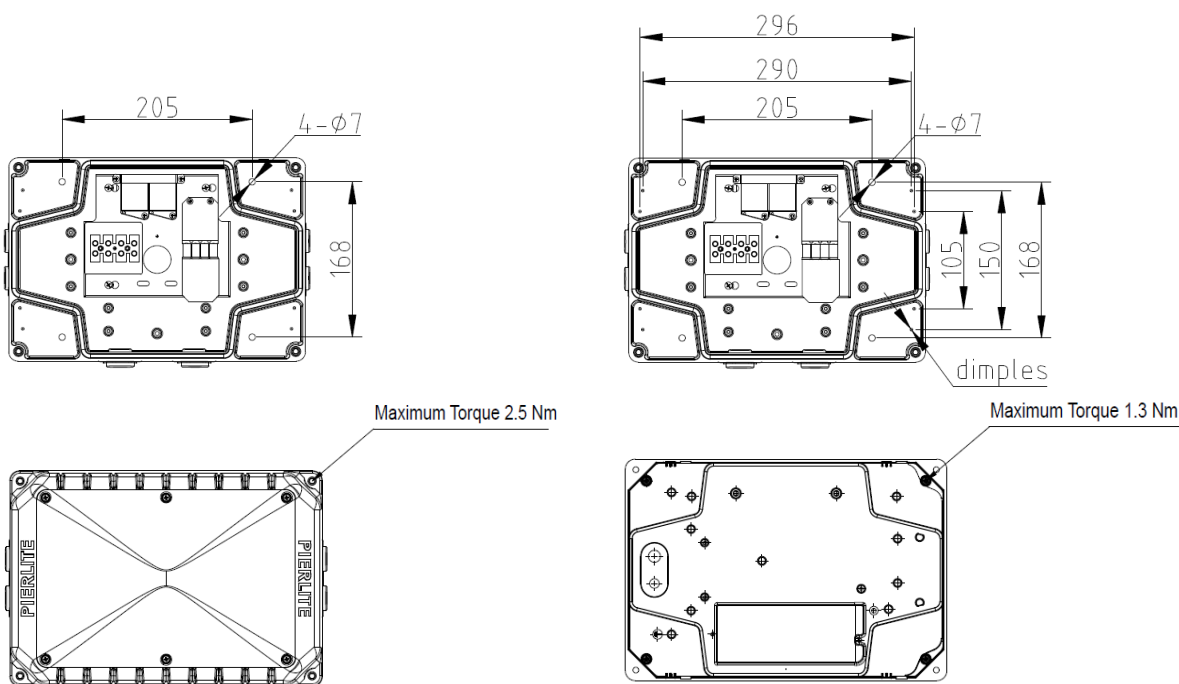
- a. Connect earth into E or terminal
- b. Connect Neutral into N terminal
- c. Connect active into A terminal

Emergency luminaire electrical connections

- a. Connect earth into E or terminal
- b. Connect Neutral into N terminal
- c. Connect switched active into A terminal
- d. Connect unswitched active into A UNSW terminal

7. Ensure battery is connected (if emergency luminaire)
8. Ensure the Dali line is connected when needed
9. Screw the body cover back on base using a M5 hex screwdriver.
10. Ensure IP rating is equal or in addition to the IP66 rating of the complete luminaire
11. Test circuit per Australian standards and your SWMS / site requirements
12. Energies luminaire

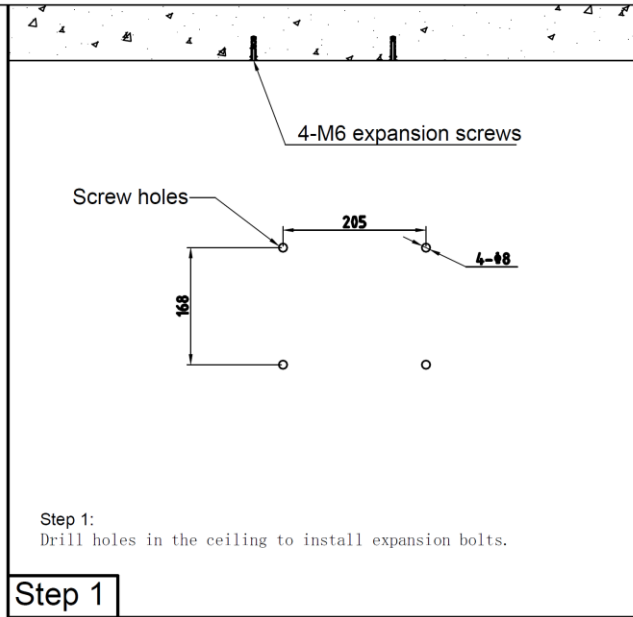
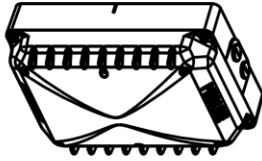
Note: Can be many mounted ways using the optional mounted brackets:



Installation manual

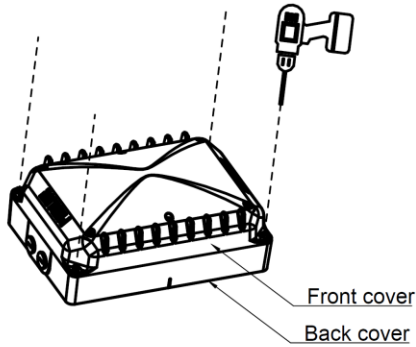
Warning

- 1, Please cut off the power before installation or maintenance;
- 2, Please strictly operate per the local electrical requirements, or let the professional person handle it;
- 3, Please don't use wet hands or stand in the wet place, or don't stand in the water to connect with power;
- 4, Please inform the manufacturer or agents or other professional person to replace the light fixtures if it is damaged;
- 5, The Minimum distance between top of fixture and any inflammable is 300mm;
- 6, The Minimum distance between top of fixture and any heat insulation material is 300mm;
- 7, The Minimum distance between side of fixture and any heat insulation material is 75mm;
- 8, Please keep this manual for any further maintenance.

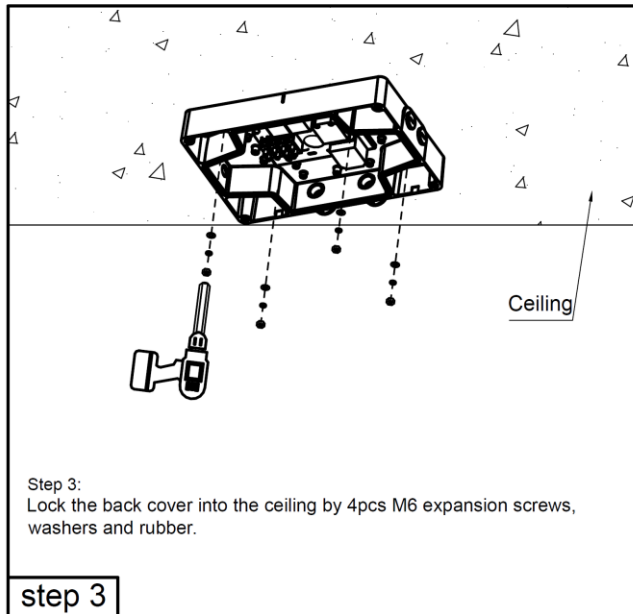


Step 1

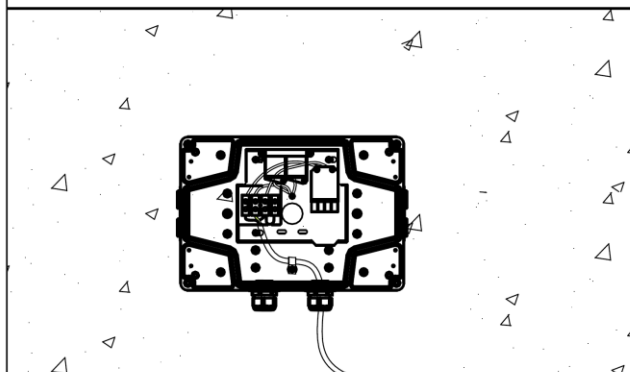
Surface mounted installation



step 2

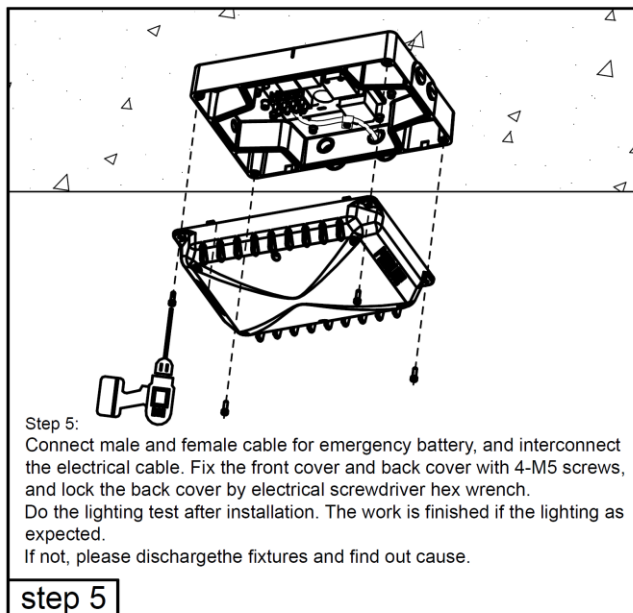


step 3



step 4

Power input line	Brown – Active wire Blue – Neutral wire Yellow and green – Earth wire
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step 5

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.

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".



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

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

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 in standby mode, and is supported with a standard warranty (refer to product specifications for details); 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.

(e) **Cables or cords,** If Any external cable or cord of the X or Y type luminaire is damaged, it shall be replaced by a qualified person or manufacturer's service agent.

For Z type attachments to luminaire, cord cannot be replaced if damaged, the luminaire shall be removed from service.

Flex cord types.

- X: A specially prepared flexible cable or cord, may also include a part of the luminaire and only available from manufacture.
- Y: Attachment may be used either with ordinary or special flexible cable or cord.
- Z: Attachment of cable or cord that cannot be replaced without damage to luminaire

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

Warranty period - The above components are provided with a warranty (refer to product specifications for details) 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, 96 Gow Street Padstow NSW 2211, phone T 1300 799 300 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.