

The DALI system status is indicated by a bi-colour LED and by a DALI status flag.



LED indication	Status	Comment
Permanent green	System okay	AC mode
Fast flashing green (0.1 second on - 0.1 second off)	Function test underway	
Slow flashing green (1 second on - 1 second off)	Duration test underway	
Red LED on	Load failure	Open circuit; or Short circuit; or LED failure
Slow flashing red (1 second on - 1 second off)	Battery failure	Battery failed the duration test or function test; or Battery is defect or deep discharged; or Incorrect battery voltage
Fast flashing red (0.1 second on - 0.1 second off)	Charging failure	Incorrect charging current
Double pulsing green	Inhibit mode	Switching into inhibit mode via controller
Binary transmission of address via green/red LED	Address identification	During address identification mode
Green and red off	DC mode	Battery operation (emergency mode)

Troubleshooting guide

If you have installed and connected the fitting as per the instructions listed earlier and it does not function correctly, use the following table as a guide to fixing the problem. Look up the type of fault in the left column and check the possible causes from the right column.

If the fitting still does not work after checking these possible causes, contact ABB customer service in Australia on 1800 60 20 20.

No.	Fitting type	Fault	Possible causes
1	DALI AC/EM	LED lamp does not light up when connected to mains	AC supply not connected or turned off; or Switch active turned off; or LEDs damaged
2	DALI EM	Indicator LED is lit green but AC lamp does not come on when connected to mains	Switch active turned off; or Lamp damaged; or Missing loop from unswitched to switched active
3	DALI EM	Indicator LED is flashing red slow	Battery pack not connected or faulty
4	DALI EM	Indicator LED is flashing red fast	Battery charging failure; or Incorrect charging current
5	DALI EM	LED lamp is lit momentarily when test switch is pressed or when mains fail	Battery not fully charged (allow up to 24 hours); or Battery pack damaged

ABB Australia Pty Limited

For enquiries
ABB contact centre: 1800 60 20 20
E-mail: AU-ABB-Stanilite@abb.com

www.stanilite.com.au

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9AKK107492A4754-A - Jun 2019

INSTALLATION MANUAL

Stanilite® Batten LED weatherproof DALI AC, DALI emergency



Thank you for choosing ABB product

Please read this document thoroughly before commencing installation and retain for future reference. Contact ABB customer service in Australia on 1800 60 20 20 if you need any assistance. The installation instructions were correct at the time of print. To reflect changes in technology and Australian standards; ABB reserves the right to amend the instructions without notice. Updated document can be found on the Stanilite website.

Safety warning

In Australia and New Zealand, only licensed electricians are permitted by law to work with 240 volt electrical installations. Do not attempt to install or connect this product unless you are a licensed electrician. Turn off and isolate the electrical supply before connecting this fitting to the building wires. Do not touch the terminals of the terminal block when the light fitting is energised. The only user-serviceable part is the battery pack. LED light source is not user-serviceable. Do not attempt to service other parts of the fitting as this will void the warranty. As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS/NZS 3000, AS/NZS 2293). Refer to the applicable standards for data and mains cabling installation procedures and requirements.

This document covers

This document covers	What's inside the box
Safety warning	Batten LED weatherproof
Installation instructions	Installation kit
Removal instructions	Installation manual
Testing precautions	Warranty information
Troubleshooting guide	

Important to note:

- For electronic control fitting such as this fitting (when supplied) do not megger between A and N.
- The product must be maintained and operated in accordance with the manufacturer's instructions, failure to do so may damage the product. It is recommended that this important note be communicated to the site owner or manager and or contractor of the installation at the time of site commissioning.
- This product is designed for indoor and outdoor use.
- Not suitable for installations where exposure to direct sunlight may occur.

DALI (digital addressable lighting interface)

DALI is widely acknowledged as being an open protocol as defined under IEC 62386 and is designed only for communication in lighting systems.

ABB exit and emergency luminaire with DALI functionality comply with DALI standard IEC 62386.

The DALI AC and emergency batten wiring consists of additional 2 way terminal block for DALI control wires apart from the mains terminal block. The DALI terminals are labelled as AC DALI or AC and EM DALI both, depending on type of luminaire.

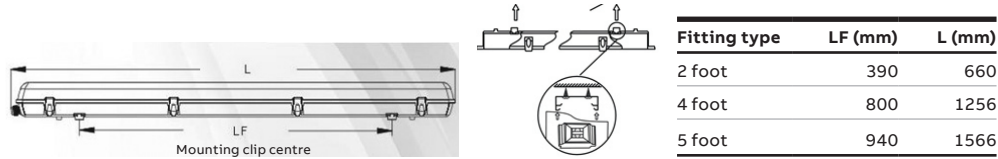
Note: No mains or mains carrying cables are to be connected to DALI terminals or DALI control wires.



Installation instructions

1. Remove the diffuser from the base.
2. Rotate the gear tray retaining clips (2) to remove the gear tray from the base.
3. The batten can be either ceiling or wall mounted, or suspended. For ceiling installation; mark the position of the mounting brackets using the distance LF as shown in table below. Use the mounting bracket as a template to mark mounting bracket screw locations. For wall mount installation; it is recommended to use the 45 degrees mounting brackets (sold separately under part number 26-PBMD001) to maximise the light output.

Note: Avoid drilling any hole through the base housing. If a sealing compound is used, it must be of the neutral cure type. It is the responsibility of the installer to install the fitting correctly to maintain the batten's IP integrity.



4. Secure the mounting brackets (2) to the ceiling/wall using appropriate fixings (fixings suitable for installation into concrete are supplied, for other mounting surfaces use appropriate fixings depending on the type of building construction materials used).
5. A pre-drilled cable access hole is available. If alternative access is required drill the case to suit the cable gland. We recommend to use the provided cable gland (20mm hole), 1 cable sealing bush and 1 cable gland (20mm hole) are supplied.
6. Run mains cable as appropriate through the base access hole via a sealing grommet or gland provided to maintain the IP rating of the fitting.
7. Attach the gear tray to the base via the lanyards provided.
8. Strip 9mm insulation length from mains cable, connect and terminate wires to the terminal block. Be careful with multi-strand conductors that all the strands are twisted together before insertion into the terminal. Any stray strands that inadvertently come into contact with their neighbouring terminal will cause undesirable results when the fitting is powered.

Wire/fitting type	AC
Switched active	Wire to SA terminal
Neutral	Wire to terminal N
Earth	Wire to terminal E or

Wire/fitting type	Non-maintained	Maintained - no SA	Maintained - with SA
Switched active	Don't wire SA terminal	Loop the SA and A terminals	Wire to SA terminal
Unswitched active	Wire to terminal A	Wire to terminal A	Wire to terminal A
Neutral	Wire to terminal N	Wire to terminal N	Wire to terminal N
Earth	Wire to terminal E or	Wire to terminal E or	Wire to terminal E or

9. Connect DALI control wires to DALI AC terminal block (for AC non-emergency fitting), and DALI AC and EM terminal block (for DALI emergency fitting).
10. Verify that the battery is connected to the power pack.
11. Fit the gear tray to the base, check and make sure no cable or wire obstruction around the retaining clip slots before locking the gear tray in place.

12. Energise the fitting and allow a few minutes to give the battery a small charge then press the test button to ensure the fitting is functional in emergency mode. Check the LEDs operation and indicator LED per following tables. Refer to the troubleshooting guide if abnormal operation or indication is encountered.
13. Fit the diffuser clips (if not already fitted) and then fit the diffuser, see figure 1.

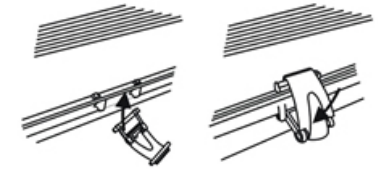


Figure 1: Diffuser clip diagram

Fitting type/fitting state	Normal operation	Test switch pressed (after few minutes charging)
Non-maintained	LEDs will be off	LEDs will turn on
Maintained - no SA	LEDs will be on	LEDs will go into emergency mode
Maintained - with SA	LEDs will follow the SA state	LEDs will go into emergency mode

Important: 24 hours is required to allow the fitting battery to reach full capacity, ie: prior to a discharge test. As the installer, it is your responsibility to conduct the initial discharge testing of the installed fitting. Refer to AS/NZS 2293.

Removal instructions

1. Before removing the installed fitting, de-energise and lock off the supply circuit.
2. Remove the diffuser and unclip the gear tray from the base.
3. Disconnect the battery and then remove the mains cabling from the terminal block.
4. Disconnect the DALI cable connection.
5. When the fitting is reconnected to the supply, it will need time to recharge its battery for 24 hours before it will be capable of a full length discharge again.

Testing precautions

Once the fitting is permanently connected to the mains supply, a commissioning discharge test as required in AS/NZS 2293.2 must be carried out. You will need to allow 24 hours for the battery to fully charge prior to conducting this test, presently (at the time of writing), the standard requires that fittings operate in emergency mode for a period not less than 2 hours for their commissioning test and for not less than 90 minutes thereafter (it is required that 6 monthly discharge tests be carried out). You will need to keep the records for the commissioning test and enter them into the building emergency services logbook or via other recording methods as allowed by AS/NZS 2293.2.

Construction sites

Continuously switching off the mains power supply that is connected to emergency light fittings during the construction phase of an installation will cause these fittings to discharge and charge their batteries many times over a short period; this can shorten life of the battery. ABB does not recommend such practices and may not honour the warranty on batteries when they are subjected to such harsh operating conditions. Emergency light fittings are designed to be discharge tested once every 6 months as per AS/NZS 2293.2, subjecting the product to repeated discharge or charge cycles is regarded as an abuse of the fittings.