Trouble shooting guide

If you have installed and connected the unit 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.

No.	Fault	Possible causes
1	LED lamp and indicator LED not lit	AC supply not connected; or AC supply turned off; or Test switch damaged
2	LED lamp not lit but red indicator LED is lit	LED lamp damaged; or LED lamp plug incorrectly inserted in the mother board
3	LED lamp not lit but indicator LED is flashing green	LED lamp damaged; or LED lamp plug incorrectly inserted in the mother board
4	LED lamp is lit but red indicator LED not lit	LED damaged; or Check battery connection
5	The LED lamp does not switch to emergency mode when the test button is pressed	Test switch damaged
6	Indicator LED is constant green	Test switch damaged; or Self check fail - return to factory
7	Indicator LED not red after commissioning	Check battery connection and battery plug polarity
8	The LED lamp works momentarily on emergency when the test button is pressed or tested by command from the Nexus system	Battery not yet be charged (allow up to 24 hours)

If the unit still does not work after checking these possible causes, contact ABB service in Australia on 1800 60 20 20, Monday to Friday, 7.00am to 5.00pm (AEST) and ask for help. Our trained service personnel will usually be able to take your call immediately and assist you in resolving your difficulty. ABB is committed to providing valuable through-life support for its products.

www.stanilite.com.au

Exit LED weatherproof
Standard, Nexus LX, Nexus RF

Doc no. 29-00006

This document covers	What's inside the box
Safety warning	Exit LED weatherproof
Installation instructions	Installation manual
Removal instructions	Warranty information
Testing precautions	
Trouble shooting guide	

Congratulations

Congratulations on choosing to use this ABB product covered by our unique through-life support system. This document is designed to assist you during the installation of this product; for the safety of yourself and others **ABB recommends that you read this document thoroughly before commencing installation.** The fittings are designed for easy installation. They are advanced pieces of electronic equipment which, when treated with care and maintained through regular and appropriate servicing, will perform reliably for many years to come.

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 parts are fluorescent or halogen lamp/s. LED light sources are not user-servicable.
Do not tamper with the fitting or the warranty will be void.
As the installer, it is your responsibility to ensure compliance with all relevant building and safety codes, (ie: AS3000, AS/NZS2293). Refer to the applicable standards for data and mains cabling installation procedures and requirements.

Important note: This product is designed for indoor use only.

Nexus LX (data cable system)

The Nexus® range of emergency light fitting are designed to be connected together into a special communication network over a Level 4 (or higher) high speed, single twisted pair data cable. The Nexus user and technical guide describes all you need to know to successfully install a Nexus project. Ask for it from your supervisor, from your employer or from your nearest ABB product supplier. The network cabling of the building must be installed as per the procedure detailed in the Nexus user and technical guide. No mains or mains carrying cables are to be connected to the data terminals or cables.

Nexus RF (wireless system)

The Nexus RF range of light fittings are designed to communicate via a proprietary RF network, however the electrical installation of the fittings is identical to that of a standard non-monitored fitting.

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Installation instructions
Important note: The mounting holes are at the same location as the lid's screws, see figure 2. The holes centre distance is 164 x 354mm. If the mounting holes are drilled through the enclosure, the installer must seal the holes with suitable sealant to maintain the enclosure IP rating integrity.

1. Remove the unit from the packing box and inspect it for damage or imperfections. If any damage is found, do not install the unit, but replace it carefully into the packing box and notify the ABB product support hotline in Australia on 1800 60 20 20.

2. If all looks okay, installation can proceed.

3. Unscrew 4 screws and remove the lid.

4. Unscrew 4 screws from the gear tray then remove it from the enclosure.

5. Decide on the mains entry (back or side) then drill a cable entry hole to suit the conduit or cable gland size. Remove all burrs and sharp edges around the cable entry hole and make sure the enclosure is free of dust. For cable side entry; the holes centre is 25mm from the base.

Gear tray mounting screws

354

164

Enclosure mounting holes

Terminal block for data cable for Nexus LX fitting

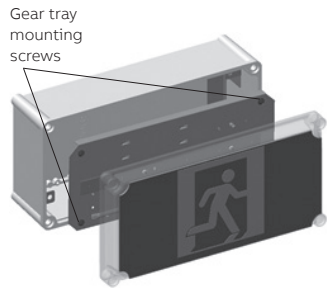Terminal block for mains

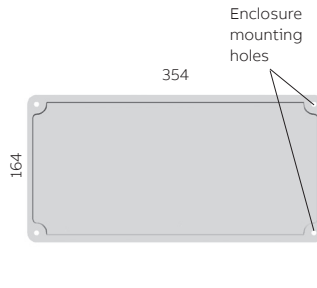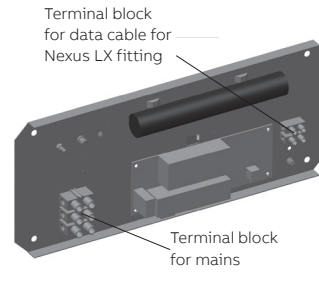Figure 1   Figure 2   Figure 3

6. Determine the mounting location, hold the enclosure in position and secure it in place by appropriate M6 screws (the housing mounting holes diameter is 6.4mm) (due to the wide variety of building construction materials, fasteners are not supplied). Make sure the mounting screws are fixed into solid material that is strong enough to support the weight of the unit which is approximately 4kg. A suitable washer should be used in conjunction with the screw.

7. Run mains cable in the ceiling or wall space as appropriate or surface mounted in conduit, slide the cable gland over the cable then feed the cable through the entry hole of the enclosure. Allow adequate wire length to reach the terminal block then secure the cable gland in place.

8. Terminate mains wires to the terminal block. Be careful with multi-strand conductors that all the strands are twisted together before insertion into the terminal block. Any stray strands that inadvertently come into contact with their neighbouring terminal will cause undesirable results when fitting is powered.

Wire/fitting type	
Unswitched active	Wire to terminal US/A
Neutral	Wire to terminal N
Earth	Wire to terminal E or ⏚

9. This step is for Nexus LX product only; terminate the data cable to the small terminal block make sure the same colour wire from each data cables connects to the terminal marked +. The other colour wire from each of the data cables connects to the terminal marked -. No mains or mains carrying cables are to be connected to the data terminals or cables.

10. This step is for Nexus RF product only; feed the antenna cable connector through the vacant hole on the gear tray plate and secure it in place with the nut provided, then install the antenna to this connector. Collect the MAC address by removing the peel off sticker section and locate it on your floor plan or spreadsheet.

11. Connect the battery connector to the power pack.

12. Install the gear tray and secure it to the enclosure by 4 screws.

13. Check operation of the unit to ensure that the installation was successful. When powered up, allow a few minutes to give the battery a small charge then press the test button. Hold the test button in for a few seconds and observe the operation of the lamp switching from mains to the emergency mode. If the lamp on emergency mode works momentarily, that's okay. Try again in a few more minutes in case battery is completely discharged, it may take a little time to charge up enough to operate even momentarily. After this time, press the test button again and if the lamp does not work at all, check the supply, the connections and follow the instruction given in the trouble shooting guide at the end of this document.

Fitting type	Indicator LED state - on initial powering - no fitting faults
Non-monitored	Solid red
Nexus LX	Flashing green
Nexus RF	Green flash with 2 red blinks, green flash with 3 red blinks

Important note: 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/NZS2293.

14. This step is for Nexus LX or Nexus RF only; once manually checked, it is ready for the commissioning into the Nexus network. Keep the information details of this unit including exact location description, MAC address label, DB (distribution board) and CB (circuit breaker) numbering, channel and router numbering, plan number and cross referencing information as all of this will be required for entry into the database during commissioning. Refer to the Nexus user and technical guide for full details. As the installer, it is your responsibility to conduct the initial discharge testing of the installed unit. Refer to AS/NZS 2293.

15. If the installation is successful, secure the lid to the enclosure. Ensure to tighten the lid's screws properly to maintain the enclosure IP rating integrity.

Removal instructions
1. Before removing the installed fitting, de-energise and lock off the supply circuit. Note: There may be 2 actives present, ensure all power is isolated before proceeding.

2. Remove the lid and gear tray from the enclosure.

3. Disconnect the mains supply from the terminal block (and data cable for Nexus LX fitting or antenna cable for Nexus RF fitting) and disconnect the battery plug from the PCA before removing the unit.

Testing precautions
Once the fitting is permanently connected to the mains supply, a commissioning discharge test as required in AS/NZS2293.2 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/NZ2293.2.

Construction sites
Continuously switching of 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 the life of the battery and will also result in shortened emergency lamp life. 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/NZS2293.2, subjecting the product to repeated discharge or charge cycles is regarded as an abuse of the fittings.