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.

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.	Fitting type	Fault	Possible causes
1	Standard Nexus LX Nexus RF	Lamp does not light up when connected to mains	AC supply not connected or turned off; or Switch active turned off; or Lamp damaged or not inserted properly
2	Nexus LX	LED is flashing green but AC lamp does not come on when connected to mains	Switch active turned off; or Lamp damaged or not inserted properly; or Missing loop from unswitched to switched active
3	Nexus LX	LED is flashing green but lamp does not come on when test switch is pressed	Switch active turned off; or Lamp damaged or not inserted properly; or Battery pack not connected or faulty; or Test switch damaged
4	Nexus LX	LED does not light up red after the commissioning	Battery pack not connected; or LED wire not properly inserted into the terminal
5	Standard Nexus LX Nexus RF	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
6	Nexus LX	LED is constant green	Unit self checks fail - return to manufacturer
7	Nexus LX Nexus RF	Unit LED is not flashing yellow/orange under wink node command	Unit is not receiving communication signal Check data cable wiring path and cable or RF connections Refer to Nexus user and technical guide

If the unit still does not work after checking these possible causes, contact ABB service in Australia on 1800 222 435, 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.

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ABB Australia Pty Limited
Phone: 1800 222 435
E-mail: AU-ABB-Stanilite@abb.com
www.stanilite.com.au

Exit LED jumbo
Standard, Nexus LX, Nexus RF

Doc no. 29-99571

This document covers	What's inside the box
Safety warning	Exit LED jumbo
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-serviceable.
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

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 222 435.
2. If all looks okay, installation can proceed.
3. Unscrew 2 screws and remove one end panel. Slide and remove the diffuser from the base and then remove the lamp and base cover (2 screws).

4. The exit LED jumbo can be either ceiling or wall mounted. The wall mount version comes with 2 right angle brackets. Check the fitting type and orient the base to suit the mounting and cable access position and use the base as a template to mark mounting screws' locations for either the base or the mounting brackets.
5. Cable entry is either via the cable entry hole in the rear of the base, knockouts in either end or cable access hole/s can be drilled in the base to suit.
6. Secure the base to the ceiling or to the wall via the brackets supplied using appropriate fixings (fixings not supplied due to the wide variety of building construction materials).
7. Run mains cable as appropriate through the base access hole.
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	Maintained - no SA	Maintained - with SA
Switched active	Loop the SA and A terminals	Wire to SA terminal
Unswitched active	Wire to terminal A	Wire to terminal A
Neutral	Wire to terminal N	Wire to terminal N
Earth	Wire to terminal ⏚	Wire to terminal ⏚

9. Emergency fittings only - verify that the battery is connected to the power pack.
10. Fit the LED lamp and check the lamp/LED/battery operation of the fitting to ensure a successful installation. Allow 5 minutes charging prior to performing a test push button.

Fitting type/fitting state	Normal operation	Test switch pressed (after few minutes charging)
Maintained - no SA	Lamp will be on	Emergency lamp will go into emergency
Maintained - with SA	Lamp follows the state of the SA	Emergency lamp will go into emergency

| 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

Refer to the Nexus user and technical guide for detailed description of all possible LED patterns and their meanings.

Important note: Use only approved ABB LED lamp part no 15-10020, non-approved LED lamp will cause undesirable malfunction or damage to the fitting.

11. Fit the diffuser and secure the end plate to the base.

Data connections - Nexus LX and Nexus RF product range

Nexus LX fitting
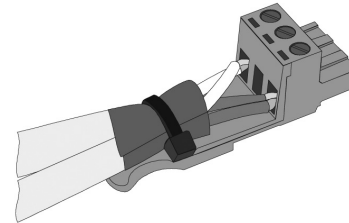
Connect the data cable to the green connector on the power pack.
When correctly installed no fitting should have more than 2 data cables connected to it.
If you have more than 2 data cables at any 1 fitting, the installation is incorrect.
If this fitting is at the end of a data cable run, a terminator needs to wire in parallel across the 2 data lines.
If there is an in and out data cable, then the shields should be wound together, folded back and taped up.
Consult the Nexus user and technical guide for further detail, including product commissioning.

Nexus RF fitting
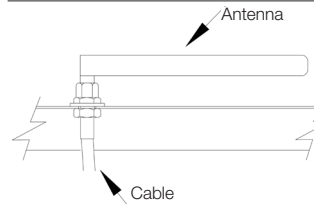
Antenna
Cable

Fit the antenna connector through the vacant hole on the gear tray and connect the antenna to it as shown.
Collect the MAC address, by removing the peel off sticker section and locating it on your floor plan or spreadsheet.
Note: Other end of the antenna has been pre-connected to the power pack.
Consult the Nexus user and technical guide for further detail, including product commissioning.

Maintained, Nexus LX and Nexus RF fitting

LDR clip
Minimum 150mm
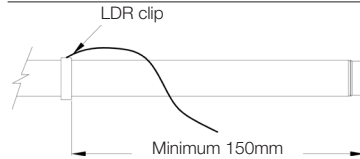
Light sensing clip (fitted with a light dependent resistor - LDR) to be fitted to the lamp.
Position the clip approximately 150mm from the lamp end.
The LED lamp should stay on when the test button is pressed.

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.

Removal instructions

1. Before uninstalling, switch off the mains supply to the fitting.
2. Open one end plate and remove the diffuser.
3. Unscrew the unswitched active, neutral and earth cable connection from the terminal block.
4. For Nexus LX unit; unplug the data cable connection from the terminal. Disconnect the battery plug from the battery and unscrew the mounting screws of the gear tray. 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/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.