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.

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 not lit; or LED not flashing green	AC supply not connected; or AC supply turned off
2	LED is flashing green but lamp/beams does not come on when test switch is pressed	Fuse missing or fuse damaged; or Lamp/beams wire not inserted/connected properly; or Lamp/beams damaged; or Battery not charged enough; or Battery damaged; or Test switch damaged
3	LED not red after the commissioning	Fuse missing or fuse damaged; or LED wire not properly inserted into the terminal block
4	Lamp/beams is lit momentarily when test switch is pressed; or when mains fail	Battery not fully charged (allow up to 24 hours); or Battery damaged
5	LED is constant green	Unit self checks fail - return to manufacturer
6	Unit LED is not flashing yellow/orange under wink node command	Unit is not receiving communication signal. Check data cable wiring path and cable 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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9AKK106930A0661 - Oct 2016 - Revision 10

Installation manual

Flood light Nexus

Doc no. 29-01023

This document covers	What's inside the box
Safety warning	Flood light Nexus
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 lamp/s and battery.
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.

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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.

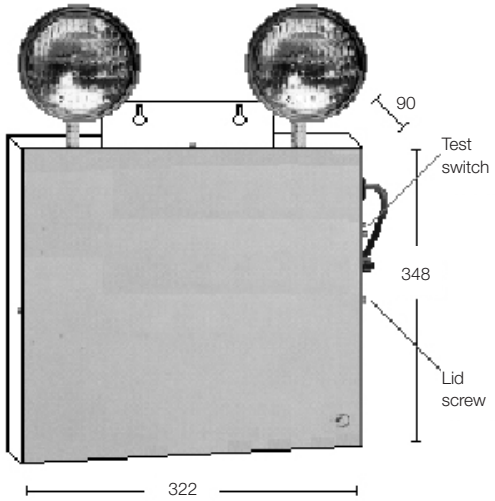

Figure 1: Flood light Nexus with beams installed

3. Use a pencil to mark the position of the mounting screw holes for the flood light.

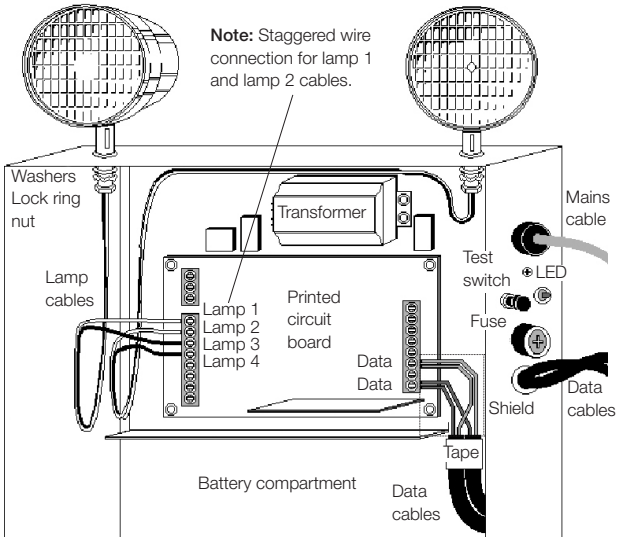

Figure 2: Flood light Nexus lamp/beams and data cable connection diagram

4. Remove the lid by unscrewing 4 screws as shown in figure1. Install both the beams using washer and lock ring nut (refer to figure 2).

Beams connections

Connect the beam/lamp cables as shown in figure 2 using a suitably sized screwdriver. Ensure that the stripped wire ends are completely inserted into the terminal block and no bare conductors are exposed to the metal.

Note: The lamp cables are in staggered pattern as shown in figure 2.

Data connections

Connect the data cable as shown in figure 2 using suitably sized screwdriver. Ensure that the data cable/s are completely inserted into the terminal block and properly secured with tape.

Note: 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. You will need to consult the Nexus user and technical guide.

Warning: No mains carrying cables are to be connected to the data terminals or cables.

5. Place the fuse into fuse holder before connecting flood light to mains (fuse is placed inside the box and normally secured with the tape).
6. Once powered up, as a non-maintained flood light the present lamp/beams stays off. The emergency function of the flood light should only operate when the unswitched active power supply fails or when somebody presses the manual test button located on the side of the unit. The emergency function also operates when the flood light receives a command from the Nexus controller to switch into emergency mode. When you first install the flood light its LED will be flashing green. During different modes of operation the LED status should be as follows;

Flashing orange	Wink mode cable tracing is on. Valid messages are being received by the unit
Static orange	Wink mode cable tracing has been turned off
Static red	Unit has been commissioned, battery is charging, lamp filament is intact
Flashing red	Unit is under test

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

7. Check the 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 manual test button located at the side of the unit. Press and hold the test button for a few seconds and observe that the lamp/beams lights up and stays on, until the test switch is released. If the lamp works only momentarily, this ensures that the connections are correct and the battery requires at least 24 hours to fully charge. If the lamp does not work at all, check the supply, the connections, and the trouble shooting guide at the end of this document.
8. Once manually checked as per item 7 above, the flood light is ready to be communication tested and commission into the Nexus network. Keep the information details of this flood light including exact location description, 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/NZS2293.

Removal instructions

1. Switch off the mains supplies to the flood light, remove the fuse from fuse holder and then unplug the mains power cord.
2. Remove the lid by unscrewing four screws as shown in figure 1.
3. Unscrew the data cable connection from the terminal block using a suitably sized screwdriver and then unscrew the mounting screws of the flood light.
4. When the unit is reconnected to the supply, it will need time to recharge its battery before it will be capable of a full length discharge again.

Note: When sending flood lights for repair make sure that the lamp/beams and mains cable are included.