Installation Manual

Stanilite®
Batten LED weatherproof bulkhead
Standard, Nexus® LX, Nexus RF

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.

<table>
<thead>
<tr>
<th>No.</th>
<th>Fault</th>
<th>Possible causes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>LED light source and indicating LED not lit</td>
<td>AC supply not connected; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>AC supply turned off; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Test switch damaged</td>
</tr>
<tr>
<td>2</td>
<td>LED light source is lit but indicating LED not lit</td>
<td>Test switch damaged; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery not connected or faulty</td>
</tr>
<tr>
<td>3</td>
<td>LED light source does not switch to emergency mode when the test button is pressed</td>
<td>Test switch damaged; or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Battery not connected or faulty</td>
</tr>
<tr>
<td>4</td>
<td>LED light source works momentarily on emergency when the test button is pressed</td>
<td>Battery not yet charged (allow up to 24 hours)</td>
</tr>
</tbody>
</table>

Note: There may be 2 actives present, ensure all power is isolated before proceeding.

1. Before removing the installed fitting, de-energise and lock off the supply circuit.

2. Remove the diffuser as shown in figure 1.

Removal instructions

3. Remove the gear tray as shown in figure 2 and figure 5.

4. Disconnect the mains supply from the terminal block (and data cable for Nexus LX fitting, see figure 5) and remove the fitting.

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.

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

Troubleshooting guide

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

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.

Important to note:

• This product is designed for indoor and outdoor use.

• Not suitable for installations where exposure to direct sunlight may occur.

Nexus LX (data cable system)

The Nexus range of emergency light fittings 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.

• 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.

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.

ABB Australia Pty Limited

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Installation Instructions

1. Remove the diffuser as shown in figure 1.
2. Remove the gear tray as shown in figure 2.
3. Use appropriate mounting as shown in figure 3. Drill through the metal enclosure and mark holes location. Secure the fitting using appropriate fixings (not supplied) depending on the type of building construction material used.
4. Run mains cable as appropriate through the base or side access hole. Ensure that the IP rating of the fitting is maintained.

Note: If a sealing compound is used, it must be of the neutral cure type.

5. 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.

6. Verify that the battery is connected to the power pack or PCA. For Nexus LX product; connect the data cable to the green data connector or terminal block marked data. For Nexus RF product; ensure that the antenna is fitted to the gear tray. For more details refer to the data connections section. Re-install the gear tray as shown in figure 2 and figure 5.

7. Check the operation of the fitting 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 to ensure that fitting is functional in emergency mode.

8. Re-install the diffuser as shown in figure 1.

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<table>
<thead>
<tr>
<th>Wire/fitting type</th>
<th>Maintained - no SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unswitched active</td>
<td>Wire to terminal A</td>
</tr>
<tr>
<td>Neutral</td>
<td>Wire to terminal N</td>
</tr>
<tr>
<td>Earth</td>
<td>Wire to terminal E or</td>
</tr>
</tbody>
</table>

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Data connections

Nexus LX fitting

- Connect the data cable to the green connector on the power pack or PCA, or to the fixed terminal block marked data.
- 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 be wired 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

- 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.

Important: 24 hours is required to allow the fitting battery to reach full capacity, i.e. 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.