## 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 lamp and indicator LED not lit</td>
<td>AC supply not connected; or AC supply turned off; or Test switch damaged</td>
</tr>
<tr>
<td>2</td>
<td>LED lamp not lit but red indicator is lit</td>
<td>LED lamp damaged; or LED lamp plug incorrectly inserted in the mother board</td>
</tr>
<tr>
<td>3</td>
<td>LED lamp not lit but indicator LED is flashing green</td>
<td>LED lamp damaged; or LED lamp plug incorrectly inserted in the mother board</td>
</tr>
<tr>
<td>4</td>
<td>LED lamp is lit but red indicator LED not lit</td>
<td>LED damaged; or Check battery connection</td>
</tr>
<tr>
<td>5</td>
<td>The LED lamp does not switch to emergency mode when the test button is pressed</td>
<td>Test switch damaged</td>
</tr>
<tr>
<td>6</td>
<td>Indicator LED is constant green</td>
<td>Test switch damaged; or Self check fail - return to factory</td>
</tr>
<tr>
<td>7</td>
<td>Indicator LED not red after commissioning</td>
<td>Check battery connection and battery plug polarity</td>
</tr>
<tr>
<td>8</td>
<td>The LED lamp works momentarily on emergency when the test button is pressed or tested by command from the Nexus system</td>
<td>Battery not yet charged (allow up to 24 hours)</td>
</tr>
</tbody>
</table>

### 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.

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Installation instructions

Note: Due to additional insulation sheet inside the fitting, the diffuser needs to be installed before recessing the fitting into the ceiling.

Note: The circuit supplying mains power to the fitting must not be energised until installation of the fitting is completed.

1. Take out the cut-out template (348mm x 97mm) from the packing box; use a pencil to mark the cut-out position on the ceiling.

2. Preparation of fittings. Remove face plate, connect the diffuser wire loom to the main board and lay the wire loom carefully inside the base. Connect the battery. Insert 4 nylon stand posts to the mounting holes in the main board. Align the holes in the insulation sheet to the 4 stand posts. Firmly press down and secure the insulation sheet to the stand posts. Refer figure 1.

3. Fixing the diffuser. Insert one side of the diffuser in the diffuser holding latch hole and push the diffuser to the latching hole in the opposite side until the diffuser clicks and locks in place.

4. Installing the fittings to the ceiling cut-out. Recess the base assembly through the ceiling cut-out (if access to the ceiling cavity is not available, connect the mains power cord and Nexus data cable, secure with the cable ties supplied, before recessing the base in the ceiling cut-out). Once recessed in the cut-out, tighten the cam lock screws using suitable size Philips screwdriver or a power-driven screwdriver set at minimum torque, turning clockwise (refer figure 2), to secure the product to the ceiling. Connect the mains power cord and Nexus data cable if not connected earlier and secure with the cable ties supplied.

5. Hold the face plate in your hand; make sure the rectangular hole in the face plate for the LED and test switch lines up with LED and test switch in the base. Bring up the face plate close to the base, place the locking tab on one side in the position, the other end locking tab should line up on the correct position. Once both the locking tabs are in the correct position, press gently, till it clicks and locks. Press gently in the middle to lock middle 2 tabs, click sound indicates the tabs are in correct position. Once both the locking tabs are in the correct position, press gently, till it clicks and locks. Press gently in the middle to lock middle 2 tabs, click sound indicates the tabs are locked in position.

6. Install the pictograph inserts by sliding into the diffuser. The pictograph inserts can be installed in the diffuser prior to installing the diffuser assembly in the fitting. Fitting is supplied standard with all pictograph insert options for single and double sided, as complete one box solution to meet any site/project needs.

7. The circuit supplying mains power to the fitting can now be energised. Once powered up, in a single point unit red LED lamp should energise and remain lit on mains, until the power supply fails. For Nexus product; the normal initial uncommissioned status of the indicating LED on the fitting is flashing green. Once commissioned, the LED changes to a steady red and flashes red during test when receives command from the Nexus system. Please refer to the Nexus user and technical guide for a full detailed description of all possible LED states and their meanings. The emergency function of the fitting should only operate when the normal lighting power supply fails or when somebody presses the manual test button located on the fitting or when commissioned on the Nexus network and the fitting receives a command from the Nexus controller to switch into emergency mode.

8. 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 manual test button.

9. 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 because if the battery was 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 the troubleshooting guide at the end of this document.

10. Once manually checked as per item 7 above, the Nexus fitting is ready to be communication tested and commissioned into the Nexus network and registered in the database. Keep the information details of this fitting including exact location description, DB (distribution board) and CB (circuit breaker) numbering, channel and router numbering, plan number and cross referencing information as all this will be required for entry into the database during commissioning. Refer to the Nexus user and technical guide for full details.

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.

Removal instructions

1. To remove/uninstall fitting from the ceiling, the steps to be followed are the reversal of installation process. Turn off mains power to the fitting, the fitting will automatically switch into emergency mode as the mains power has been turned off. It will stay on the emergency mode until such time as the battery cut-off threshold is reached.

2. Remove face plate, gently insert a small screwdriver into the first slot (first slot is close to the diffuser end) and pull down gently, repeat the same on the other end to remove face plate.

3. To remove diffuser assembly, hold the diffuser holding latch with thumb on one end and push gently to the opposite end to remove diffuser from the holding latch. Once diffuser is removed from the latch, disconnect/remove wire loom plug from the mother board. Once the diffuser assembly is removed, disconnect the battery pack plug on the mother board.

4. Loosen the cam lock screws using suitable size Philips screwdriver or a power driven screwdriver set at minimum torque, turning anti-clockwise. Once the cam lock screws are loosened, the recessed base assembly can be pulled down gently from the ceiling cut-out, pull out the mains power cord from the back of base.

5. When the fitting is reconnected to the mains supply, it will need time to recharge its battery before it will be capable of a full length discharge again. The ability of the fitting to operate on emergency is determined by the age, charge level, operating temperature conditions and environmental circumstances of the battery in the fitting.