**Overview of Application**

The ML-Series Remote Battery Switch provides high-current carrying and switching under load. The Remote Battery Switch should be installed close to the battery banks to avoid voltage drop. Install a single pole double throw (SPDT) or single pole single throw (SPST) control switch in a convenient location near other electrical controls or companionway to allow quick access in the event of an emergency.* Although a SPST switch may be used if desired, use of a SPDT switch improves immunity to inadvertent switching if the controls become damp.

### ML-RBS 7712 and 7714 Remote Operation Table

<table>
<thead>
<tr>
<th>ML-RBS</th>
<th>Remote Operation Enabled</th>
<th>Remote Disabled</th>
<th>Remote Operation Enabled</th>
<th>Remote Disabled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relay State</td>
<td>ON (Closed)</td>
<td>-</td>
<td>OFF (Open)</td>
<td>-</td>
</tr>
<tr>
<td>Manual</td>
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<tr>
<td>Control</td>
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<tr>
<td>Knob Position</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Battery Switch state after 10 minutes</td>
<td>-</td>
<td>ON (Closed)</td>
<td>OFF (Open)</td>
<td>-</td>
</tr>
</tbody>
</table>

**CAUTION** If the ML-RBS Relay state is changed using the Manual Control Knob to a state that is different than the Remote Switch 2155, the relay state will automatically change to match the Remote Switch state after 10 minutes. The two scenarios where this will occur are shaded in the table above.

### Remote LED Indicator embedded in PN 2155 SPDT ON-ON Contura Switch

- **LED Indication**
  - LED is OFF: Remote Battery Switch is OFF
  - LED is ON: Remote Battery Switch is ON
  - LED double blinking ON-OFF: Manual override--check Remote Battery Switch for switch states. OR Remote Battery Switch mechanical failure

The remote LED embedded in PN 2155 indicates a closed connection between battery bank and load, or between two battery banks when used as an emergency cross-connect. **Remote Operation**, PN 2155 (SPDT, ON-ON) Remote Control Contura Switch in the ON position can either connect the battery bank to the load or combine two battery banks. In the OFF position it can either disconnect a battery bank from a load or isolate two batteries from each other.

To connect battery bank to load, or combine battery banks

- Set remote switch 2155 to position marked “ON”. Remote LED indicates closed connection.

To disconnect battery bank from load, or isolate battery banks that are connected

- Set remote switch 2155 to position marked “OFF”. Remote LED indicates closed connection.
Installation Instructions

Mounting
Install as close as possible to battery bank. To avoid corrosion to connecting wires and terminals, mount in a dry and protected location. Avoid mounting directly above vented lead acid batteries so that the Remote Battery Switch is not exposed to corrosive gasses expelled from the batteries.

High Current Primary Circuit Connections (stud terminals A and B)
For help selecting the appropriate wire size and circuit protection rating, go to www.bluesea.com and click the Circuit Wizard quick link.

NOTE: Stud terminals A and B are interchangeable. A battery connection is required on one terminal for device operation.

To connect high current circuit wires:
1. Connect the battery bank to one of the stud terminals marked A or B.
2. Connect the load to the other stud terminal marked B or A.
3. Torque the high current terminal stud nuts to 140 in-lbs (15.5 N•m) maximum.

NOTE: If switching an inverter, windlass, bow thruster, etc., the circuit wires must have circuit protection to comply with ABYC guidelines. Wires used for engine starting do not require circuit protection.

Control Circuit Connections (wires contained in the wire harness)
NOTE: The Remote Battery Switch is designed to be controlled by a SPDT or SPST switch. Use minimum 16 AWG wire for the Control Circuits. For help selecting the appropriate wire size for the load cables, go to www.bluesea.com and click the Circuit Wizard quick link.

To connect the SPDT Remote Control Switch 2155:
1. Connect pin 3 and pin 8 to +12V or +24V Power available when Remote Battery Switch is OFF. (fused)
2. Connect the red control wire to switch pin 2.
3. Connect pin 7 to yellow wire.
4. Connect pin 1 to ground or negative.

Guarantee
Blue Sea Systems stands behind its products for as long as you own them. Find detailed information at www.bluesea.com/about.

For customer service, call 800-222-7617.