

# Operation / Installation Instructions

## SL Series Power Distribution Modules

### Operation Instructions

The SL PDM uses a SPDT ON-ON Remote Control Switch for control from a remote location. The Remote Control Switch should be mounted in a convenient location for quick access.

ACTION	OPERATIONS	LED INDICATION
To switch the battery bank and high-amperage circuits <b>ON</b>	Depress the top part of the Remote Control Switch actuator.	LEDs on switch and block illuminate, indicating that switched circuits are <b>ON</b> .
To switch the battery bank and high-amperage circuits <b>OFF</b>	Depress the bottom part of the Remote Control Switch actuator.	LEDs on switch and block do not illuminate, indicating that switched circuits are <b>OFF</b> .

#### The manual control override knob overrides the Remote Control Switch and provides:

- An added level of safety that allows manual ON-OFF control with or without power
- LOCK OFF position for servicing the electrical system or to disconnect the battery bank and high-amperage circuits in an emergency

#### Unswitched Fused Circuits

Fused circuits A, B, C, and D are always on 24-hour, (non-switched), regardless of the Remote Control Switch and manual override switch states (see Illustration 1.2 - System Diagram on reverse side).

#### Fuses





Unlatch the two yellow tabs on the fuse cover to access fuses.

The ATO® Fuse Block of the SL PDM is used for 24-hour (non-switched) circuits. The total continuous amperage of this block must not exceed 50A.

The MIDI® Fuse Block of the SL PDM is used for the switched circuits. The total continuous amperage of this block must not exceed 240A.

#### Manual Control Override Operations

Battery bank and high-amp switched circuits 1,2, and 3 only:

ACTION	OPERATION
To switch the SL PDM <b>ON</b>	Turn manual control knob to the <b>ON</b> position and push button until latched. 
To switch the SL PDM <b>OFF</b>	Rotate manual control knob to the <b>OFF</b> (red) position (switch contacts open). 
To switch the SL PDM back to <b>READY</b>	Rotate manual control knob back to the <b>ON</b> position. 
To prevent remote operation of the SL PDM for <b>SERVICE SHUT OFF</b>	Rotate manual control knob to the <b>OFF</b> (red) position. 

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### Installation Instructions

Install the SL PDM in a readily accessible location as close as possible to the battery. Mount in a dry and protected location. Avoid mounting directly above vented lead acid batteries so that the SL PDM is not exposed to corrosive gasses from the batteries.

Where possible, mount the SafetyHub in a vertical orientation. (See illustration 1.1 below)

#### High Current Input/Remote Battery Switch Connection

Connect the positive battery terminal to the input stud on the SL PDM. Torque the connection to 15 ft-lb.

#### High-Amperage Switched Fuse Circuit Connections

To connect high amperage loads such as an engine starting circuit, distribution panel, or windlass, use the numbered high amperage studs.

**CAUTION:** Do not switch the Remote Control Switch to OFF while the engine is running!

#### Unswitched Fused Circuit Connections

The fuse connections labeled with letters are designed to be used for circuits that are always on.

#### Control Circuit Connections

(wires contained in the wire harness)

**NOTE:** The SL PDM is designed to be controlled by the Remote Control Switch. Use minimum 18 AWG (1.5mm<sup>2</sup>) wire for the control circuit.

