Installation Instructions

TR SERIES

Part Number: 880175, 880175-0001, 880175-0002, 880175S, 880302

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880175 880175-0001 880175-0002

Description

Cut all battery power to vehicle electrical systems with the TR Series 32V 500A 2-Pole Waterproof Master Battery Disconnect Switch. The dual-pole, single-throw (DPST) switch works in heavy-duty truck, construction, emergency vehicle, bus and transit, military, and agricultural applications requiring the switching of two circuits or both positive and negative.

You can feel confident mounting this master battery disconnect switch in exposed locations thanks to its IP67 and IPX9K waterproof and dustproof ratings as well as its high shock and vibration tolerance.

The dual battery disconnect switch can be used to disconnect both the battery positive and ground lines simultaneously or it can be used to switch two vehicle voltage circuits simultaneously (24V and 12V).

Integrated lock-out/tag-out (LOTO) capability in either the on or off position using a padlock or hasp (not included) helps ensure personnel safety and vehicle security.

Web Resources

Download 2D print, installation guide and technical resources at: **littelfuse.com/TR**

Order Information:

PART NUMBER	DESCRIPTION
880175	Switch Master TR Dual
880175-0001	Switch Master TR 2 Pole 500A, RED
880175-0002	Switch Master TR 2 Pole 500A. YELLOW
880175S	Switch Master TR Dual S
880302	Switch Master TR 2 Pole (CB)

Installation

Assemble the switch in the following sequence:

Step 1: Use an M8 bolt to secure the switch to the mounting panel, ensuring that the switch is properly oriented with the off position lock out tab is facing downward and terminals 3 & 4 on the top.

Apply a minimum torque of 15 Nm to guarantee a firm installation.

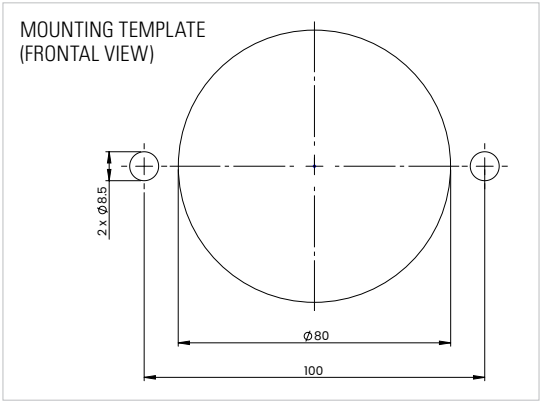
Step 2: Ensure that you have cable properly sized for the application current and terminals designed to connect to an M12 stud. Secure the terminals onto the studs using appropriate nuts.
Apply a recommended torque of 20 Nm to ensure a reliable electrical connection.

Step 3: Locate the studs labeled Stud 1, 2, 3, and 4. Connect the terminals according to the internal logic:
Studs 1 and 2 are internally connected.
Studs 3 and 4 are also internally connected.
Make sure to connect the terminals to the correct studs based on your circuit design.

Step 4: Set the switch to the OFF position, as indicated by the arrows engraved on the black plastic housing. Ensure all terminals are visible and accessible for inspection or maintenance.

Step 5: To lock the switch in the OFF position, use a padlock that meets the following minimum specifications:
Horizontal clearance: greater than 5/8”
Vertical clearance: greater than 1/2”
Shackle diameter: at least 1/4”
Insert the padlock through the designated lockout hole on the switch handle to prevent unauthorized activation.

Step 6: Confirm that the switch is properly installed: All terminals are connected according to the electrical design. The switch is in the OFF position if safety is required. A padlock is installed if access control is necessary.



Step by step images shown in Figure 2 on page 2.

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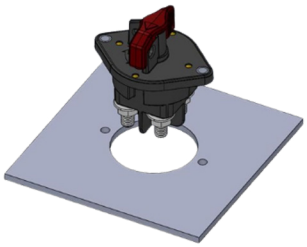
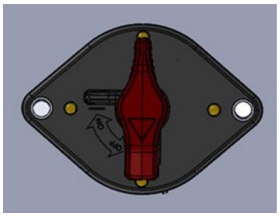
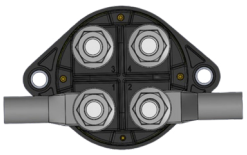
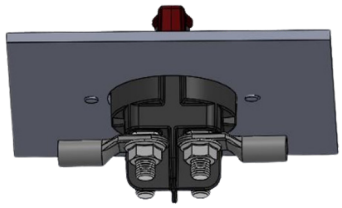
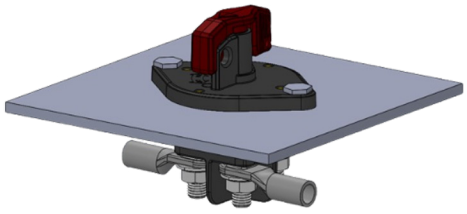
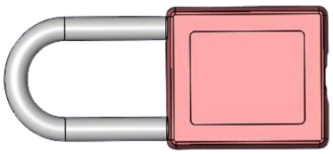
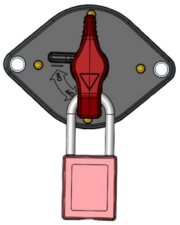
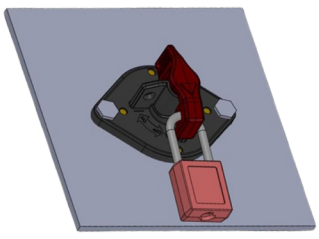
STEP 1	 	Use an M8 bolt to secure the switch to the mounting panel, ensuring that the switch is properly oriented with the off position lock out tab is facing downward and terminals 3 & 4 on the top. Apply a minimum torque of 15 Nm to guarantee a firm installation.
STEP 2	 	Ensure that you have cable properly sized for the application current and terminals designed to connect to an M12 stud. Secure the terminals onto the studs using appropriate nuts. Apply a recommended torque of 20 Nm to ensure a reliable electrical connection.
STEP 3		Locate the studs labeled Stud 1, 2, 3, and 4. Connect the terminals according to the internal logic: Studs 1 and 2 are internally connected. Studs 3 and 4 are also internally connected. Make sure to connect the terminals to the correct studs based on your circuit design.
STEP 4		Set the switch to the OFF position, as indicated by the arrows engraved on the black plastic housing. Ensure all terminals are visible and accessible for inspection or maintenance.
STEP 5		To lock the switch in the OFF position, use a padlock that meets the following minimum specifications: Horizontal clearance: greater than 5/8” Vertical clearance: greater than 1/2” Shackle diameter: at least 1/4” Insert the padlock through the designated lockout hole on the switch handle to prevent unauthorized activation.
STEP 6	 	Confirm that the switch is properly installed: All terminals are connected according to the electrical design. The switch is in the OFF position if safety is required. A padlock is installed if access control is necessary.

Specifications, descriptions and illustrative material in this literature are as accurate as known at the time of publication, and are subject to changes without notice. Visit littelfuse.com for the most up-to-date technical information.

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