

# TR SERIES

## 32V 500A 2-POLE WATERPROOF MASTER BATTERY DISCONNECT SWITCH



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 one or two batteries in either the positive or negative line, and 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](http://littelfuse.com/TR)

### Ordering Information

| PART NUMBER | DESCRIPTION                                                           | CIRCUITRY | INPUT TERMINAL           |
|-------------|-----------------------------------------------------------------------|-----------|--------------------------|
| 880175      | Master Battery Disconnect Switch with Black Knob                      | DPST      | Stud M12X1.75 Tin Copper |
| 880175-0001 | Master Battery Disconnect Switch with Red Knob                        | DPST      | Stud M12X1.75 Tin Copper |
| 880175-0002 | Master Battery Disconnect Switch with Yellow Knob                     | DPST      | Stud M12X1.75 Tin Copper |
| 880175S     | Master Battery Disconnect Switch with Black Knob - one switch per box | DPST      | Stud M12X1.75 Tin Copper |

### Specifications

|                                   |                             |
|-----------------------------------|-----------------------------|
| <b>Max Voltage Rating:</b>        | 32VDC                       |
| <b>Continuous Current Rating:</b> | 500A @ 32VDC with 4/0 cable |
| <b>Inrush Amps Time Period:</b>   | 30 Seconds ON MAX           |
| <b>Operating Temp Range:</b>      | -40°C to +85°C              |
| <b>Ingress Protection:</b>        | IP67 / IP-X9K               |
| <b>Ignition Protection:</b>       | 94V-0                       |
| <b>Mounting Method:</b>           | Flange                      |
| <b>Mounting Hole:</b>             | Ø8.5mm                      |
| <b>Housing:</b>                   | Black Thermoplastic         |

### Applications

- Heavy Trucks
- Construction
- Emergency Vehicles
- Bus/Transit
- Military

### Features and Benefits

- Maximum continuous current of 500A per circuit with two 4/0 input and two 4/0 output cables or 350A per circuit with one 4/0 input and one 4/0 output cable
- IP67 and IPX9K waterproof and dustproof ratings enable mounting in exposed locations on the vehicle
- Drop-in replacement for competitive master disconnect switches when you need higher vibration (8 G) and shock (30 G) capabilities
- Built-in lock-out/tag-out in the on or off position using a padlock or hasp helps ensure the safety of service personnel and the security of the vehicle
- Available with a black, yellow, or red knob
- Four tin-plated copper M12 x 25 mm terminal studs
- Two holes for M8 or 5/16" mounting