MASTER DISCONNECT SWITCH 12-48VDC

Littelfuse

48V NEW IP67 IP69K

The Littelfuse Master Disconnect 2 Pole Switch cuts all battery power from vehicle electrical systems with applications needing switching of two circuits. Can be used to switch two vehicle voltage circuits simultaneously (24V & 12V). Disconnect a battery or multiple batteries, in either the positive or the negative line.

Features

- 500A continuous current rating per circuit.
- Ingress protection to IP67 and IP69K means that the switch can be mounted in exposed locations on the vehicle.
- Drop-in replacement for competitive Master Disconnect Switches, with higher vibration and shock capabilities.
- Direct lockout/tagout capability in On or Off position, with padlock or hasp.

Part Number	Amperage	Switch Circuit	Ingress Rating	Mount	Actuator Colour
880175	500A	DPST	IP67 / IP69K	Surface	Black
880175-0001	500A	DPST	IP67 / IP69K	Surface	Red
880175-0002	500A	DPST	IP67 / IP69K	Surface	Yellow



880175

Voltage: 48VDC.
Max Continuous Current Ratings:
500A per circuit with 2 x 4/0 input and 2 x 4/0 output cables.
350A per circuit with 1 x 4/0 input and 1 x 4/0 output cables.
Terminal Stud Size: M12 x 25mm.
Terminal Studs: Tin-plated copper
Hardware: Stainless steel nuts (included)
Ingress Protection Rating: IP67 / IP69K.
Inrush Rating (1 sec): 3,000A per circuit with 2 x 4/0 + 1 x 2 AWG.
Cranking rating (30 sec):
2,250A per circuit with 2 x 4/0 input and 2 x 4/0 output cables.
1,750A per circuit with 1 x 4/0 input and 1 x 4/0 output cables.
Temperature Rating: -50 °C to +85 °C, DC-Rated to 105 °C.
Recommended Terminal Torque: 20 Nm (30Nm max).
Recommended Mounting Torque: 15Nm (20Nm max).
Notes: Ambient temperature can reach 105 °C with appropriate de-rating. Stud terminals must never exceed 125 °C under any condition.



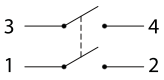
880175-0001



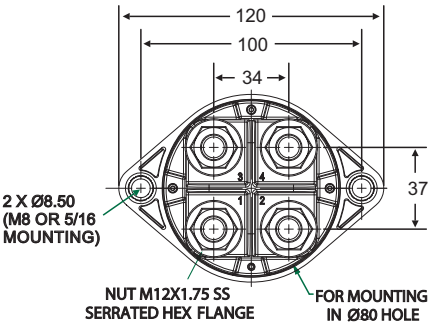
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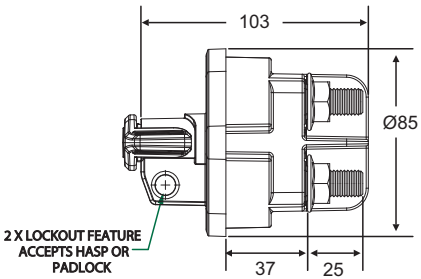
Internal Switch Circuit Diagram



Please refer to page 2 for wiring configurations.



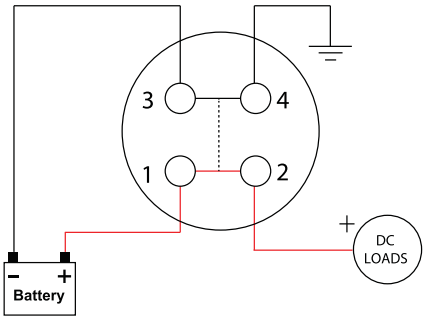
Dimensions in MM



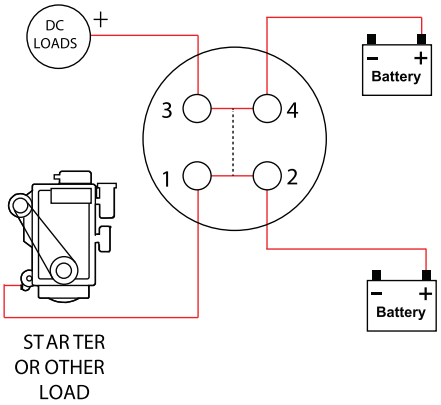
PROLEC

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Wiring Configurations



Master Battery Disconnect Dual Pole
Switching One Battery, Positive and Negative
(shown in ON state)



Master Battery Disconnect Dual Pole
Switching Two Batteries
(shown in ON state)