Product Datasheet

M-750 BATTERY SELECTOR/MASTER DISCONNECT SWITCH

Specifications

- Vaporproof, water-resistant, dustproof and corrosion resistant.
- Ignition protected: conforms to USCG safety standard Section 183.410.
- UL and CE certified.
- Body diameter 5.00” (127.00mm), mounting flange diameter 6.00” (152.40mm), overall height 2.64” (67.31mm). Three 3/8” - 24 copper studs.
- Functions either with alternators or generators.
- Make before break design permits operation through the On positions with the engine running.

Features and Benefits

- 500A intermittent, 310A continuous, 6-36V DC.
- Available with enhanced features such as alternator field disconnect circuit.
- Provides a sure and reliable battery disconnection, protecting against electrical fire, tampering or theft, and battery drain.
- For any vehicle using two batteries, such as boats, emergency and rescue vehicles, trucks, RVs, buses, and utility trucks.

Web Resources

Download technical resources at: littelfuse.com/M-750

Ordering Information

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<th>ALTERNATOR FIELD DISCONNECT</th>
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Max Starting Power
Delivers maximum starting power: allows either or both batteries to be used. Can be switched between batteries even when the engine is running.

Impact-Resistant
Rugged polyester thermoplastic case and knob. Stands up to impact, maintains its water-resistant integrity.

Water-Resistant
High-performance synthetic rubber o-ring keeps out water, contaminants and vapors. Many battery switches have no o-ring!

500 Amp Capacity
Solid copper contact plates. Easily handles amperages as high as 500A intermittent. Largest amp capacity for the dollar of any battery switch.

Corrosion-Proof
Stainless steel screws securely hold the plate against the o-ring, and keep the switch watertight.

Large knob for easy grip... even when wearing gloves.

Flange for easy flush mounting. Can also mount through a panel.

Heavy spring ensures rock-solid electrical contact and provides strong detent action to the switch.

3/8” - 24 copper studs are solidly machined to the contact plates and cannot come apart.

All-weather hardware: heavy copper studs and brass nuts for maximum current capacity.
Typical Wiring Diagrams for M-750 & M-751

2 Batteries, 1 Switch, 1 Engine, 1 Alternator

2 Batteries, 1 Switch, 1 Engine, 1 Alternator, with Battery Isolator

Mounting

M-750 series switches can be mounted flush or from behind, through a circular hole. When mounted flush, the switch covers over any holes previously made. When mounted from behind, No. 563 self-adhesive plastic sticker is available, which is identical to the ring-shaped sticker already on the switch.

Surface Mounting
Drill four holes on a 5.500” diameter circle (139.7mm). Hole size 0.218” (5.53mm) diameter will accept No.10 screws.

A1 = 1.944” (49.38mm)
A2 = 3.888” (97.78mm)
CL = Center line

Through Panel Mounting
Housing & knob clearance hole 3.312” diameter (84.12mm). Drill four holes on a 4.395” diameter circle (116.63mm). Hole size 0.201” (5.10mm) diameter, 0.5” (12.70mm) deep for 1/4” -20 bolts.

B1 = 1.553” (39.46mm)
B2 = 3.107” (78.92mm)
CL = Center line

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