

75920 Series

70V DC Battery Master Disconnect Switch



Description

Keep service personnel safe and protect the battery and electrical systems in your emergency vehicle, tractor, heavy-duty truck, or boat with the 75920 Series 70V Master Battery Disconnect Switch.

The heavy-duty battery disconnect switch ensures the safety of service professionals by disconnecting the battery from the vehicle electrical system, safeguards against battery drain from parasitic loads, and features built-in lock-out/tag-out for tampering and theft prevention.

As an IPX8-rated waterproof battery disconnect switch, it is ideal for a wide range of vehicles, including construction equipment, heavy-duty trucks, boats, and vehicles operating in harsh conditions, such as snowplows and snow removal equipment. Fitting a standard master disconnect mounting pattern, the 75920 series can be used as a drop-in replacement.

With a large knob that makes manual operation simple, plus clear switch position markings and 90° switch travel, the high-amp battery disconnect can effectively be used as a manual emergency power cutoff switch.

Web Resources

Download 2D print, installation guide and technical resources at: littelfuse.com/75920

Specifications

Current / Cycle Life Rating Continuous:	400A @ 24V with 105mm ² (4/0) cable 10,000 cycles 500A @ 24V with 200mm ² (2x4/0) cable 5000 cycles 300A @ 70V with 105mm ² (4/0) cable 1500 cycles 500A @ 70V with 200mm ² (2x4/0) cable 250 cycles
Intermittent Current in Amps:	At 12V all, 5 cycles : 1000A 90 sec on, 5 min off 1500A 60 sec on, 5 min off 2000A 30 sec on, 5 min off 3000A 15 sec on, 5 min off
Max Voltage Rating:	70V DC
Flammability Rating:	UL 94 V-0
Ingress Protection:	IPX8
Mounting Method:	Through Hole
Circuitry:	SPST
Operating Temp Range:	-40 to +85 °C

Applications

- Heavy-Duty Truck
- Construction
- Agricultural Equipment
- Material Handling
- Mining
- Off-Road Vehicles
- Emergency Vehicles
- Marine

Features and Benefits

- High amperage continuous current capacity of 400A with a single 4/0 cable at 24V DC, 500A at 70V DC with two 4/0 cables
- IPX8-rated waterproof battery disconnect switch for external mounting on vehicles as well as installation on boats and marine equipment
- Can be used in high-side or low-side applications
- Black or gray thermoplastic housing with a UL 94 V-0 rating
- Tested per SAE J1455 for salt, calcium chloride, and magnesium chloride, delivering a rust- and corrosion-free high-amp battery disconnect
- Large red, yellow, or black knob makes the master battery disconnect switch easy to operate while wearing gloves, and the 90° switch travel makes it simple to identify the switch position
- Built-in lock-out/tag-out (LOTO) satisfies OSHA requirements for an energy isolation device
- Large divider on the base prevents accidental shorting of high energy cables

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Ordering Information

PART NUMBER	DESCRIPTION	INPUT TERMINAL	MOUNTING STEM	MOUNTING HOLE DIMENSION (mm)	ACTUATOR KNOB
75920	70V Master Battery Disconnect Switch with On/Off Markings and Red Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-01	70V Master Battery Disconnect Switch with On/Off Markings and Yellow Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	YELLOW
75920-02	70V Master Battery Disconnect Switch with Special Red Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-03	70V Master Battery Disconnect Switch without External Stop or Bezel - Red Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-05	70V Master Battery Disconnect Switch with I/O Markings and Red Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-05-BX	70V Master Battery Disconnect Switch with I/O Markings and Red Knob	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-10	70V Master Battery Disconnect Switch with On/Off Markings, Red Knob, and Stainless Steel Hardware	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-BP	70V Master Battery Disconnect Switch with On/Off Markings and Red Knob - Blister Pack	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75920-BX	70V Master Battery Disconnect Switch with On/Off Markings and Red Knob - Boxed	3/8-24	3/4"-16 ZINC	Ø20.62, Ø7.92	RED
75921-02	70V Master Battery Disconnect Switch with I/O Markings and Black Knob - SS Hex Nut - Metric	M10 X 1.5	18mm X 1.5 ZINC	Ø19.00, Ø7.00	BLACK
75921-10	70V Master Battery Disconnect Switch with I/O Markings and Red Knob - SS Hardware - Metric	M10 X 1.5	18mm X 1.5 ZINC	Ø19.00, Ø7.00	RED
75921-10-BX	70V Master Battery Disconnect Switch with I/O Markings and Red Knob - SS Hardware - Metric - Boxed	M10 X 1.5	18mm X 1.5 ZINC	Ø19.00, Ø7.00	RED