

MOMENTARY SOLENOID SWITCHES

12VDC & 24VDC 500 AMP SOLENOID SWITCHES

FEATURES & BENEFITS

- Provides Remote Control of Battery Parallel Function
- **NO** Continuous Battery Drain
- Reduces Length and Weight of **Un-Fused** Battery Cables
- Can be Installed Near Batteries
- Tested for Ignition Protection (SAE J1171)
- Prevents Accidental Battery Discharge
- Can be Used with the Little Boy Latching Solenoid Switch
- Three Year Factory Warranty

The **500 Amp Solenoid Switch** provides a simple, reliable, and cost effective means to momentarily parallel a vessel's two isolated battery systems by remote control. Efficient placement of the **500 Amp Solenoid Switch**, in close proximity to the batteries, reduces the potential fire hazard and voltage drop caused by long runs of heavy un-fused battery cable. The 500 Amp Solenoid Switch eliminates the nuisance of trips to the engine room each time the vessel's batteries must be paralleled to open and close an unsightly, bulky, mechanical, battery switch. Instead, a compact low current control switch with integral red LED indicator, placed conveniently at the helm or fly bridge, alerts the operator when the batteries are paralleled.

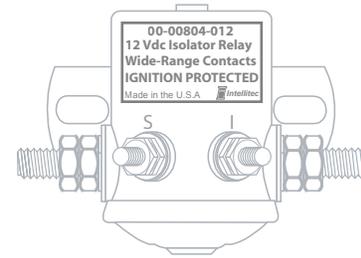
This **500 Amp Solenoid Switch** requires **NO** continuous current draw to maintain switch contacts in the open position.

To close the **500 Amp Solenoid Switch** contacts, a momentary positive DC voltage is applied to the "S" **Solenoid Switch** coil terminal, and a negative DC voltage is connected to the "I" coil terminal (see wiring diagram). The control switch integral red LED indicator, located at the helm or fly bridge, is now illuminated. When the power is removed, the Solenoid Switch contacts open, and the red LED indicator is automatically turned off.

The **500 Amp Solenoid Switch** contacts are protected with a unique antioxidant coating and can safely open, close, and carry up to 500 Amps for periods of up to 30 seconds. The **500 Amp Solenoid Switch** is ignition protected and tested to SAE J1171 in compliance with ABYC standards E-9.8.1 and E-9.4 NOTE 7.

Specifications

Part Number	139-006-B	139-007-B
Nominal Actuation Voltage	12 Volts	24 Volts
Actuation Current	0.9 Amps	0.4 Amps
Continuous Duty	Yes	Yes
Minimum Actuation Voltage	9 Volts	18 Volts
Maximum Continuous Carry Current	100 Amps	100 Amps
Maximum Short Term Current (30 Sec)	500 Amps	500 Amps
Maximum Ambient Temperature	185°F	185°F
Minimum Ambient Temperature	-40°F	-40°F
Contact Life at Full Load	Minimum of 10,000 Cycles	Minimum of 10,000 Cycles
Maximum Actuation Time	0.2 Seconds	0.2 Seconds



500 Amp Momentary Solenoid Switch

Over current protection is required for the 500 Amp Solenoid Switch coil and integral LED, which is compliant with ABYC standards E-9.11.1 (7/40-inch rule), E-9.12.5.2.3 (5000 AIC fuse rating), and E-9.12.6.2 (ignition protection). Our 5 Amp fuse (P/N 010-001) is tested to UL 1500 and complies with these standards (see wiring diagram).

The **500 Amp Solenoid Switch** mechanism is immune to the shock and low frequency vibration found in the marine environment.

In a typical installation, The **500 Amp Solenoid Switch** is mounted near the vessel's battery to minimize battery cable length. Efficient placement of these two circuit components reduces battery cable resistance and weight and as a result, system cost. Minimizing un-fused battery cable length also reduces the risk of shorting to ground. A control switch with integral red LED indicators permits operation of the **500 Amp Solenoid Switch** from multiple convenient locations, such as the helm, the fly bridge, or the engine room (see wiring diagram). The **500 Amp Solenoid Switch** can be combined with two Little Boy Latching Solenoid Switches (P/N 570-012-B 12VDC or 139-008-B 24VDC) to form a complete remote control marine battery switching system.

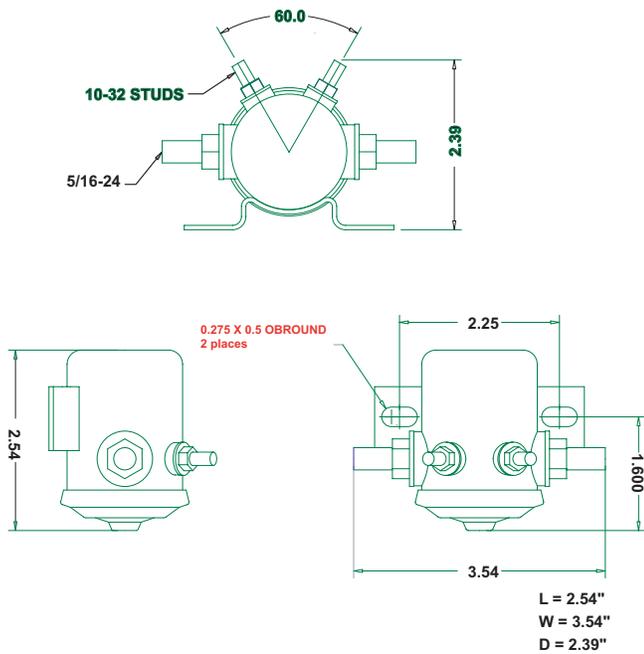
The **500 Amp Solenoid Switch** has been used by industry for over ten years. The **500 Amp Solenoid Switch** is intended for use on vessels where the continuous current draw is less than 100 Amps, and gasoline engine average starting currents do not exceed 500 Amps.

3 YEAR WARRANTY

Made in the USA

MOMENTARY SOLENOID SWITCHES

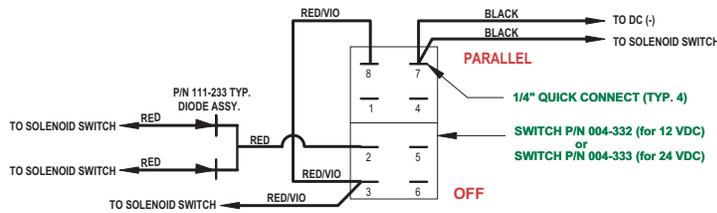
Mounting Dimensions



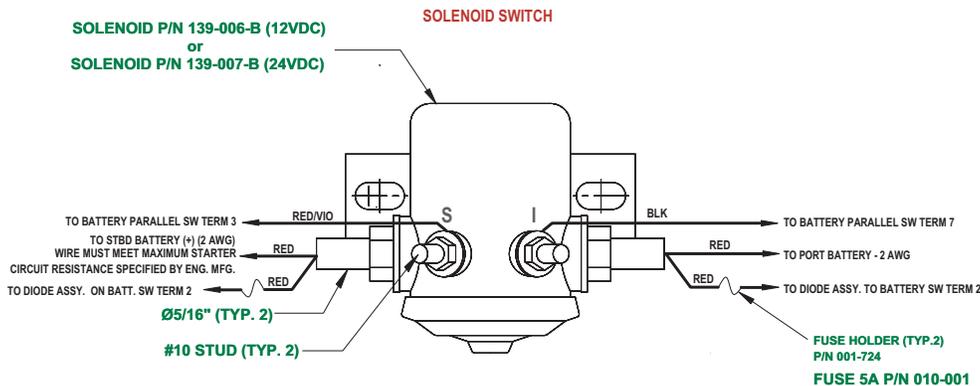
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Wiring Diagrams

BATTERY PARALLEL SWITCH SPST (MOMENTARY ON)



SOLENOID P/N 139-006-B (12VDC) or SOLENOID P/N 139-007-B (24VDC)



NOTE:
All wire #14 AWG unless otherwise specified. A protective dielectric coating (Liquid Electrical Tape™) to seal out moisture and prevent corrosion should be applied to all solenoid electrical connections.

500 AMP Solenoid Switch- Parts

Description	P/N
12 VDC Solenoid	139-006-B
Remote Switch (12VDC LED)	004-332
24 VDC Solenoid	139-007-B
Remote Switch (24VDC LED)	004-333
Fuse 5 Amp	010-001
In Line Fuse Holder	001-724
Boot (ABYC E-9.5.7.5)	330-001
Switch Plate (2.5"W X 3.5"H)	111-233
Diode Assembly	111-231

12 VDC 500 AMP Solenoid Kit- P/N 139-006-KIT

Qty	Description	P/N
1	Remote Switch (12 VDC LED)	004-332
1	Switch Plate (2.5"W X 3.5"H)	111-231
2	Fuse 5 Amp	010-001
2	In-Line Fuse Holders	001-724
2	Boots (ABYC E-9.5.7.5)	330-001
1	Diode Assembly	111-233

24 VDC 500 AMP Solenoid Kit- P/N 139-007-KIT

Qty	Description	P/N
1	Remote Switch (24 VDC LED)	004-333
1	Switch Plate (2.5"W X 3.5"H)	111-231
2	Fuse 5 Amp	010-001
2	In-Line Fuse Holders	001-724
2	Boots (ABYC E-9.5.7.5)	330-001
1	Diode Assembly	111-233