

HD SERIES BI-STABLE RELAYS

Remotely-Operated 300A Disconnect For High-Amperage Circuits



Description

The HD Series Bi-Stable Relay is designed to deliver and remotely switch vehicle loads. The HD Relay supports remote power switching applications that demand high performance; including high continuous current passage, large inverter loads, and high ambient temperature situations. The HD Relay delivers high performance in a compact size, making it a great choice for heavy-duty vehicles, construction and agriculture equipment, military vehicles, and heavy-duty lifting equipment. The HD Relay is designed for harsh weather, high shock and vibration environments; typical of those found in heavy-truck, marine, and emergency vehicle applications.

The HD Relay provides significant cost and weight benefits by eliminating the need to route heavy copper cables to more conveniently located mechanical only disconnects. Cables can instead be routed directly to loads with the HD Relay positioned close to the battery or in-line with the desired cable routing. Remote control of the HD Relay can then be located in any convenient location on the vehicle with a fine-wire harness linking the HD Relay to the control switch.

Specifications Overview

Max Voltage:	880086 - 12V DC 880088 - 24V DC
Max Continuous Current:	300A (4/0 input & output cable)
Operating Temperature:	-50°C to + 105°C
Ingress Protection:	IP67/IP69K

Web Resources

Download technical resources at:
littelfuse.com/HD

Features and Benefits

- Remotely-operated device eliminates long runs of heavy cable: Minimizes cabling complexity, cost and vehicle weight.
- Bi-stable (latched) operation draws no current in On or Off: eliminates a continuous demand on the batteries.
- LED output wire enables remote indication of relay status – Open or Closed.
- Silver alloy contact assure the lowest voltage drop/ resistance and extends cycling life of the device.
- Stainless steel hardware and tin-plated copper contacts maximize resistance in harsh environments.
- Eliminates routing of heavy gauge cables to user-accessible mechanical disconnect switches, lowering system costs
- Supports high-amp intermittent or continuous current loads.

Ordering Information

PART NUMBER	VOLTAGE	MAX AMPERAGE	CONNECTOR
880086	12V DC	300A	Deutsch
880088	24V DC	300A	Deutsch

Accessories



PART NUMBER	DESCRIPTION
880092	Remote Control Switch

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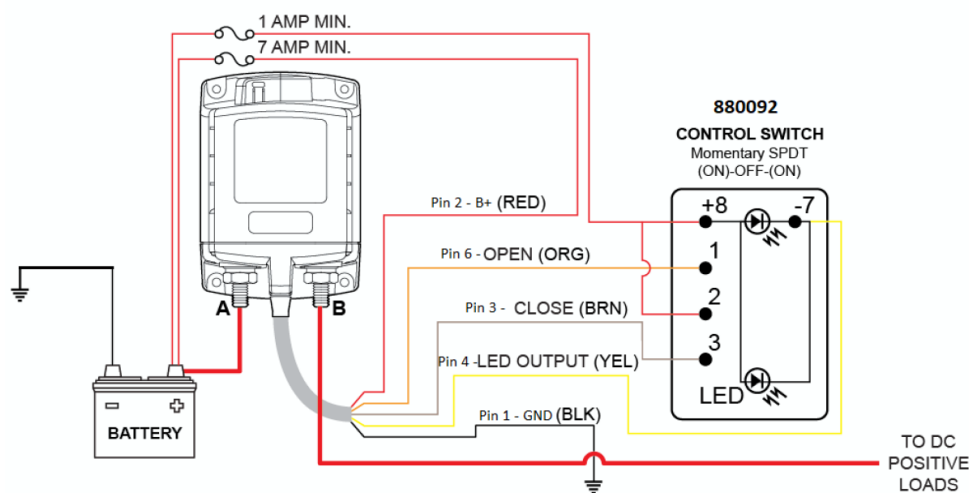
Specifications

Max Continuous Current Rating	300A (4/0 input/output cable)
Inrush Current Rating (10 Seconds)	1500A (4/0 input/output cable)
Mounting Hardware	M5 or #10
Terminal Hardware	3/8" (Accepts M10 Terminals)
Temperature Range	-50°C to +105°C
Humidity	0-95% RH
Shock	10G
Vibration	8G
Ingress Rating	IP67/IP69K
Connector	Deutsch 6-position DTM
Ignition Protection	Meets ISO 8846 & SAE J1171

Specifications: Remote control rocker switch PN 880092

Contura Control Switch	Momentary SPDT (On) -Off- (On)
Temperature Range	-40°C to +85°C
Mounting Cut-Out	1.45" x 0.83" (36.9 x 21.0mm)
LED Rating	100,000 Hours Half-Life
Ingress Rating	IP67

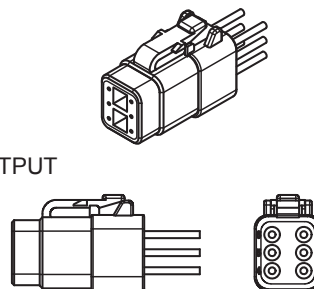
Installation



Harness Details

PIN 1 (BLACK) - GND
 PIN 2 (RED) - B+
 PIN 3 (BROWN) - CLOSE
 PIN 6 (ORANGE) - OPEN
 PIN 5 - VACANT
 PIN 4 (YELLOW) - LED OUTPUT

WIRE HARNESS CONNECTOR
 DEUTSCH DTM SERIES DTM 06-6S
 MATING P/N: P20-138-1106DI



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