HD SERIES
300 A Heavy-Duty High-Current Latching Relays



880086

Description

HD Series 300A Heavy-Duty High-Current Latching Relays are remotely operated bistable relay disconnects designed for high-current circuits and applications that demand high performance, such as large inverter loads and high ambient temperature situations. Sealed to an IP67/IP69K rating, these heavy-duty automotive relays are built to withstand dust, water, and harsh weather, as well as environments with high shock and vibration.

The HD series bistable relays provide significant cost and weight benefits by eliminating the need to route heavy copper cables to more conveniently located mechanicalonly disconnects. Cables can instead be routed directly to loads with the HD series relay positioned close to the battery or in line with the desired cable routing. Remote control of the HD latching relay can then be located in any convenient location on the vehicle with a finewire harness linking the HD relay to the control switch.

Applications

- Heavy-Duty Vehicles
- Construction Vehicles
- Agricultural Equipment
- Military Vehicles
- Heavy-Duty Lifting Equipment

Web Resources

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

Specifications

Current Rating Continuous:	300A
Max Voltage Rating:	16V, 32V DC
Agency Approval - Shock:	10 G's
Agency Approval - Vibration:	8 G's
Ingress Protection:	IP67/IP69K
Mounting Method:	Base Mounting Holes - 4 Holes (5.55 mm - 5.88 mm)
Connectors:	6-Pin Deutch DTM
Circuitry:	SPST
Flammability Rating:	UL 94 V-0
Input Terminals:	3/8"-16 Copper Studs
Recommended Torque:	10 ~ 15Nm
Operating Temperature Range:	Operational: -50°C to 85°C Non-Operational: -55°C to 105°C

Features and Benefits

- Supports high-current continuous loads up to 300A and intermittent loads up to 1500A for 10 seconds
- Available with a 12V DC coil or 24V DC coil
- Magnetically latched bistable or electronically controlled magnetically latched bistable operation draws no current in the On or Off position for low power consumption
- Remote operation eliminates long runs of heavy cable, minimizing cable complexity, cost, and vehicle weight
- Sealed to an IP67/IP69K rating for protection against dust, debris, and water ingres
- Silver alloy contacts assure the lowest voltage drop/ resistance and extend cycling life
- Models 880159 and 880160 are electronically controlled, allowing a single low-current signal to control the bistable relay.

Accessories



PART NUMBER	DESCRIPTION
880092	Remote Control Switch for part numbers 880086 & 880088

Ordering Information

PART NUMBER	DESCRIPTION	HOUSING	VOLTAGE	CONTACTS	COIL TYPE
880086	16V 300A Heavy-Duty High-Current Magnetically Latching Bistable Relay with 12 V Coil	Black Thermoplastic	16V DC, 12V DC Coil	Silver Alloy	Magnetically Latched Bistable
880088	32V 300A Heavy-Duty High-Current Magnetically Latching Bistable Relay with 24V Coil	Black Thermoplastic	32V DC, 24V DC Coil	Silver Alloy	Magnetically Latched Bistable
880159	16V 300A Heavy-Duty High-Current Electronically Controlled Magnetically Latching Bistable Relay with 12V Coil	Black Thermoplastic	16V DC, 12V DC Coil	Silver Alloy	Electronically Controlled Magnetically Latched Bistable
880160	32V 300A Heavy-Duty High-Current Electronically Controlled Magnetically Latching Bistable Relay with 24V Coil	Black Thermoplastic	32V DC, 24V DC Coil	Silver Alloy	Electronically Controlled Magnetically Latched Bistable

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