SD SERIES

9-32 V 600 A High-Current Bistable Latching Relay with Auxiliary Contacts



880103

Specifications

Max Voltage Rating:	32 V
Ingress Protection:	IP 66, 69K
Coil Voltage:	12 V-24 V
Ignition Protection:	UL94-V0
Current Rating Inrush:	125A @ 12VDC, 30 sec ON, 5 min OFF, 150A @ 12VDC, 5 sec ON, 5 min OFF
Temperature:	-40°C to 85°C
Contacts Voltage Rating Max:	32V
Contacts Voltage Rating Min:	9V (Low voltage detection)
Auxiliary Contacts:	1A Rated

Description

The SD Series High-Current Bistable Latching Relay supports remote power switching applications requiring high continuous current passage, large engine starting needs, and high ambient temperatures.

Capable of being remotely controlled with a fine wire harness, the SD high-current automotive relay eliminates the need to route heavy copper cables directly to accessible mechanical disconnects. Cables can instead be routed directly to loads with the SD relay positioned close to the battery or in line with the desired cable routing.

As a bistable latching relay, it draws no current in the on or off state, which reduces overall power consumption, and its compact footprint is ideal for installations with limited space.

In addition, the SD relay is designed to perform in harsh commercial vehicle environments, carrying both UL 94 V-0 flammability and IP66/IP69K ratings and meeting US DOT 11579 and EU ADR requirements for hazmat vehicle compliance.

Applications

- Heavy-Duty Trucks
- Construction Vehicles
- Agricultural Equipment
- Heavy-Duty Lifting Equipment
- Material Handling

Web Resources

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

Features and Benefits

- Available as a single-pole, single-throw (SPST) latching relay or double-pole, single-throw (DPST) latching relay
- Bistable internal mechanism draws no current in the on or off state, which reduces power consumption and waste heat
- Thermoplastic nylon housing with a UL 94 V-0 flammability rating and an IP66/IP69K rating for protection against dust, water, contaminants, and harsh conditions that are common in automotive environments
- Supports US DOT 11579 and EU ADR requirements for hazmat vehicle compliance
- Dedicated 24-hour output to power your tachograph or other keep-alive functions
- Local and remote indication of the state of the relay
- Compact footprint saves space in your installation

Ordering Information

PART NUMBER	DESCRIPTION	CURRENT RATING CONTINUOUS	INGRESS PROTECTION	CIRCUITRY	CONNECTOR	CURRENT RATING INRUSH	MOUNTING METHOD
880103	9-32 V 600 A SPST High-Current Latching Relay	600A total	IP66, IP69K	SPST	MOLEX 33472-1206 MX150 FEMALE SEALED CONNECTOR	3,000 A, 1 SEC	Flange with (4) M6 or ¼ mounting holes
880107	9-32 V 600 A DPST High-Current Latching Relay	"600A (300A Per Pole)	IP66, IP69K	DPST	MOLEX 33472-1206 MX150 FEMALE SEALED CONNECTOR	2,000 A, 1 SEC	Flange with (4) M6 or ¼ mounting holes

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