

# 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.

## Web Resources

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

#### **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

# **Applications**

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

## **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

#### CURRENT RATING INGRESS CURRENT MOUNTING PART DESCRIPTION CIRCUITRY CONNECTOR NUMBER CONTINUOUS PROTECTION **RATING INRUSH** METHOD MOI FX Flange with (4) 9-32 V 600 A SPST High-Current 33472-1206 MX150 FEMALE 880103 600A total IP66, IP69K SPST 3.000 A. 1 SEC M6 or ¼ mounting Latching Relay SEALED CONNECTOR holes MOI FX Flange with (4) 9-32 V 600 A DPST High-Current 880107 "600A (300A Per Pole) IP66, IP69K DPST 33472-1206 MX150 FEMALE 2.000 A. 1 SEC M6 or ¼ mounting Latching Relay SEALED CONNECTOR holes



