

SD SERIES HIGH-AMP RELAY

Bi-Stable Relay with Auxilary Contacts





Description

The Littelfuse SD series relay will support your remote power switching applications that require high continuous current passage, large engine starting needs and high ambient temperatures.

Additionally the SD series relay helps reduce your costs and saves weight by eliminating the need to route heavy copper cables directly to the mechanical disconnects. Cables can instead be routed directly to loads with with the SD series relay positioned close to the battery or in-line with the desired cable routing allowing you to remotely control the unit with a fine wire harness.

Web Resources

Download 2D print and technical resources at:

littelfuse.com/sdrelay

Ordering Information

Features and Benefits

- Compact footprint saves space in your installation
- Supports US DOT 11579 and EU ADR requirements for hazmat vehicle compliance
- Bi-stable internal mechanism draw no current in the on or off state saving your batteries voltage supply
- Controlled with small wires saving weight and costs of large copper cables
- Dedicated 24-hour output to power your tachograph or other keep-alive functions
- Local and remote indication of the state of the relay

Specifications Overview

Input Voltage:9-16V DCPrimary Contact Voltage:9-32V DCMax Continuous Current:600A

Max Intermittent Current (30 sec): 1,000-2,000 A

Max Inrush Current (1 sec): 2,000-3,000 A

Ingress (IP) Rating: IP66/IP69K

Applications

- Heavy Duty Trucks
- Construction
- Agricultural Equipment
- Heavy Duty Lifting Equipment

PART NUMBER	DESCRIPTION	PRIMARY CONTACT VOLTAGE	MAX CURRENT
880103	12V, Singe Pole, 600A Continuous, Aux NO & NC Contacts, Tachograph Output, Isolated Primary Contacts	9-32V DC	600A
880107	12V, Double Pole, 300A Per Pole Continuous, Aux NO & NC Contacts, Tachograph Output	9-32V DC	600A



SD SERIES RELAY

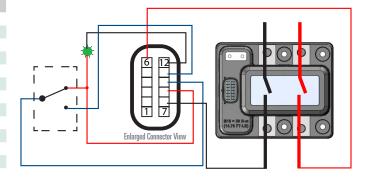
Specifications

Specifications	880103	880107
Max Continuous Current	(2x 4/0 Input and 2x 4/0 Output Cables) 600A	(4/0 Input / Output Cables) 600A (300A Per Pole)
Max Intermittent Current, 30 Sec. Duration	(2x 4/0 Input and 2x 4/0 Output Cables) 2,000A	(4/0 Input/Output Cables) 1,000A
Max Inrush Current, 1 Sec. Duration	(2x 4/0 Input and 2x 4/0 Output Cables) 3,000A	(4/0 Input/Output Cables) 2,000A
Auxiliary Contact Max Switch/Continuous Current	3A/3A	3A/3A
Ingress Protection Rating	IP66/IP69K	IP66/IP69K
Mounting Hardware (counter-bore mounting holes)	M6 or ¼"	M6 or ¼"
Mounting Bolt Torque, Recommended/Max	20 N-m/40 N-m	20 N-m/40 N-m
High-Amp Terminal Hardware	M10-1.4 Serrated Flange Nut (15 mm hex socket)	M10-1.4 Serrated Flange Nut (15 mm hex socket)
Required Female Socket Plug Connector For Mating With Integral Housing	Molex 33472-1206	Molex 33472-1206
Required Female Socket Terminals	FCI: 54001627 (16-18 AWG wire) FCI: 54002002 (20-22 AWG wire)	FCI: 54001627 (16-18 AWG wire) FCI: 54002002 (20-22 AWG wire)
Operating Temp (SAE J1455, Sec 4.1.3.1)	-40° C to 85° C	-40° C to 85° C
Salt Spray	1,000 Hours	1,000 Hours
Humidity Cycle	0 to 95% RH	0 to 95% RH
Operational Vibration	8 G	8 G

Connector Pin #	Reference	Description	880103	880107
1	AUX_COM	Auxiliary Relay Common Pin	0	0
2	AUX_NC	Auxiliary Relay Normally Closed Pin	0	0
3	PNB_LED	Logic input line, pulled to ground to activate	Χ	Χ
4	VSENSE3	Voltage sense #3 for battery combiner functionality	Χ	Χ
5	VDC_AUX_OUT	+Vdc fuse protected output	0	0
6	VDC_INPUT	+Vdc for device power	R	R
7	AUX_NO	Auxiliary Relay Normally Open Pin	0	0
8	GND	Ground for device power	R	R
9	SW_POWER	Power output to control switch and LED indicator	0	0
10	CNTRL_IN	Remote control input	R	R
11	SW_L0	Off Reference signal for control switch	R	R
12	LED1	External LED pull-down line (active low)	0	0

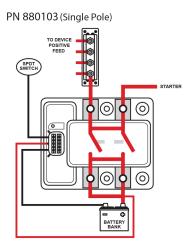
R = Required Connection O = Optional Connection

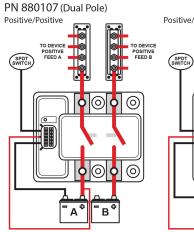
X = No Connection

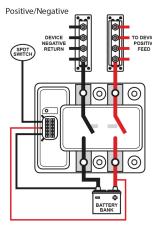


for Molex 33472-1206 (not included)

Configurations









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