Littelfuse® | Carling Technologies®
A Littelfuse® Brand

S-Series

Rocker Switches

PRODUCT WEBPAGE

request sample, configure part





S-Series rocker switches are designed for use in the enclosed cabs of today's trucks, with special focus afforded to the vehicle operator. With features including abbreviated travel ½ throw actuation, ergonomic rockers, illumination in up to three detent switch positions, and a non-teasable snap action circuit, these switches provide the driver with easily recognizable and simple to operate controls.

1-2	.4-10	12-28
Poles	Amps	VDC Max

Typical Applications

- On/Off-Highway
- Marine

Tech Specs

Electrical

Contact Rating	10A @ 28VDC
Dielectric Strength	1500 Volts RMS between pole to pole
Insulation Resistance	50 Megaohms
Contact Resistance	10 milliohms max. @ 4VDC
Contact Bounce	<20 milliseconds
Life	100,000 cycles maintained circuit, 50,000 cycles momentary circuit at rated voltage and current gold plated
Circuitry	SP, DP 2 & 3 position, 1/2 or full throw
Terminals	.110 Tabs, Silver Plated Brass

Physical

Lighted	LED - rated 100,000 hours 1/2 life (LED is internally ballasted for voltages to 24VDC.)
Bracket	Acetal
Base	Nylon 66 GF
Rocker	Polycarbonate
Weight	25 gms max.

Connector

Amp/Tyco MCP 2.8 receptacle housing P/N 1418994-1 mates with Amp/Tyco MCP 2.8 flat type receptacle. Based on wire size, choose P/N below:

1-968880-1	20-24 awg wire
1-968849-1	17-20 awg wire
1-968851-1	13.5-17 awg wire

Actuator Travel (Angular Displacement)

2 position (1/2 throw)	12°
3 position (full throw)	12° from center

Environmental

Operating Temp.	-40°C to +85°C
Vibration	Per IEC 68-2.6 test Fc and 68-2.47 Test Criteria - no noise or contact chatter below 10ms.
Cold Test	Per IEC 68-2-1 -40°C for 72 hours Test Criteria - pre & post test contact resistance.
Dry Heat Test Criteria	Per IEC 68-2-2 + 85°C for 72 hours Test Criteria - no loss of circuit during test, pre & post test contact resistance.
Handling Shock	Drop from height of 1 meter, 3 times,4 sides. Test criteria - No loss of circuit during test, pre & post test contact resistance.
Thermal Shock	Per IEC 68-2-14, -40°C to +85°C. Test criteria - pre & post test contact resistance.

Mounting Specifications

Snap in Mount	40mm x 20mm keyed hole (see dimensional specs for details.)

*Manufacturer reserves the right to change product specification without prior notice.

Ordering Scheme

Sample Part Number	S	18	A	A	R	F	0	4	-	M	Z	Z	Z	00	-	1	00	00
Selection	1	2	3	4	5	6	7	8		9	10	11	12	13		14	15	16

1. SERIES

S

2. CIRCUIT

Terminal Connections as viewed from bottom of switch:
1 - - 2
3, 5 & 7.
3 - - 4
5, 7 & 4, 6, 8.
5 - - 6
7 - - 8
9 - - 10

( ) - momentary

SP - single pole uses terminals

DP - double pole uses terminals 3,

Position:		1	2	3
SP	DP	5 & 7, 6 & 8	Connected Terminals	3 & 5, 4 & 6
16	**26**	ON	OFF	ON
18	**28**	(ON)	OFF	(ON)
SPECIAL CIRCUITS				
31		(6 & 8)	4, 5, 6, 7	OFF
41	**51**	ON	OFF	NONE [1]
42	**52**	(ON)	OFF	NONE [1]
43	**53**	(ON)	3 & 5	NONE [1]
44	**54**	ON	3 & 5	NONE [1]
45	**55**	(ON)	OFF	ON
46	**56**	NONE	5 & 7	ON
47	**57**	NONE	5 & 7	(ON)
	75	(5 & 7, 3 & 6)	5 & 7, 4 & 6	(3 & 5, 4 & 6)
	98 [2]	(5 & 7, 2 & 6)	5 & 7, 4 & 6	(5 & 9, 4 & 6)

3. RATING

1	0.4VA 28VDC Resistive
A [3]	10.5mA 1.5A 28VDC, 5A 28V 50A Inrush Lamp Load
B [4]	3.5A 28VDC, 18A Inrush
C [3]	10mA 10A 28VDC
D [3]	20mA 10A 14VDC

4. ILLUMINATION

	Lamps	Illumination Type	Lamp wired to Terminals
S	NONE	INDEPENDENT	–
A	1	INDEPENDENT	1 (+) 2 (–)
C	1	INDEPENDENT	1 (+) 2 (–)
	2	INDEPENDENT	9 (+) 2 (–)
D	1	INDEPENDENT	1 (+) 2 (–)
	2	INDEPENDENT	9 (+) 10 (–)
E	1 & 3	INDEPENDENT PARALLEL	1 (+) 2 (–)
F	1	INDEPENDENT SNAP	1 (+) 10 (–)
G	1 & 2	INDEPENDENT	1 (+) 10 (–)
		DEPENDENT	9 (+) 2 (–)
H	1 & 2	INDEPENDENT	1 (+) 2 (–)
		DEPENDENT	9 (+) 10 (–)
J	1, 2 & 3	INDEPENDENT	1 (+) 2 (–)
		DEPENDENT	5 (+) 10 (–)
		INDEPENDENT	1 (+) 2 (–)
K	1 & 2	INDEPENDENT	1 (+) 2 (–)
		INDEPENDENT	9 (+) 10 (–)
		3.3K RESISTOR IN PARALLEL	

5,6,7. LAMP (SAME CODING FOR ALL 3 SELECTIONS)

Selection 5: specifies lamp 1 located above terminals 1 (+) & 2 (-).
Selection 6: specifies lamp 2 located in center of rocker.
Selection 7: specifies lamp 3 located above terminals 9 (+) & 10 (-).

No lamp	**0**			
LED	Red	Orange	Yellow	Green
12VDC	**A**	**C**	**E**	**H**
24VDC	**B**	**D**	**F**	**J**

8. BRACKET COLOR

1	Black	**4**	Dark Carbon

9. ACTUATOR

Standard Rocker, Laser Etched

Black	Titan Gray	Dark Carbon
M	**N**	**R**

10, 11, 12. LEGEND COLOR

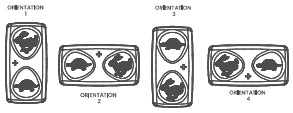
Z	No Legend	**1**	Clear

13. LEGEND 1 [5]

00	No legend

14. LEGEND ORIENTATION

0	No legend
1	Orientation 1
2	Orientation 2
3	Orientation 3
4	Orientation 4



15,16. LEGEND 2,3 [6]

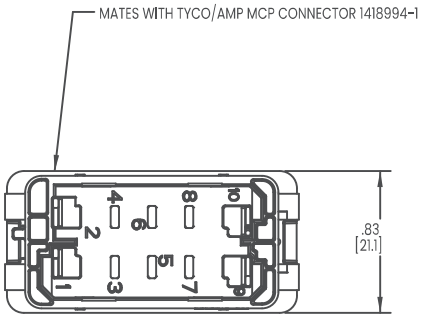
00	No legend

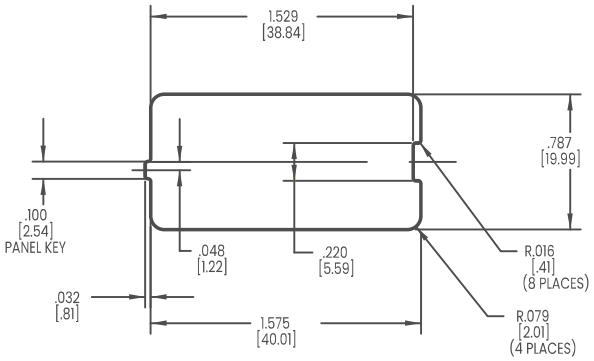
Notes:
1 Indicates 1/2 travel for actuator.
2 Snap-Action Contact Mechanism
3 Not available with circuit 98.
4 Available with circuit 98 only.
5 Located over T1-2.
6 Legend 2 located in center of rocker, Legend 3 located over T9-10. Legend 2 options are limited due to a very small marking area. Consult factory for specifics.

Configure Complete Part Number > | Browse Standard Parts >

Dimensional Specs

inches [millimeters]





PANEL THICKNESS: 2.5±0.1mm
PANEL OPENING CLEARANCE: ±5°
SCALE 2.000

