

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.)
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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 () - momentary from bottom of switch:

1 - - 2 SP - single pole uses terminals
3, 5 & 7.
3 - - 4 DP - double pole uses terminals 3, 5, 7 & 4, 6, 8.
5 - - 6
7 - - 8
9 - - 10

Position:

SP	DP	1	2	3
16	26	5 & 7, 6 & 8	Connected Terminals	3 & 5, 4 & 6
18	28	(ON)	OFF	ON
		(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
A³ 10.5mA 1.5A 28VDC,
5A 28V 50A Inrush Lamp Load
B⁴ 3.5A 28VDC, 18A Inrush
C³ 10mA 10A 28VDC
D³ 20mA 10A 14VDC

4. ILLUMINATION

S	Lamps	Illumination Type	Lamp wired to Terminals
A	1	INDEPENDENT	-
C	1	INDEPENDENT	1 (+) 2 (-)
	2	INDEPENDENT	1 (+) 2 (-)
D	1	INDEPENDENT	9 (+) 2 (-)
	2	INDEPENDENT	1 (+) 2 (-)
E	1 & 3	INDEPENDENT	9 (+) 10 (-)
		PARALLEL	1 (+) 2 (-)
F	1	INDEPENDENT	1 (+) 10 (-)
		SNAP	-
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

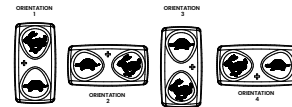
Z No Legend 1 Clear

13. LEGEND 1⁵

00 No legend

14. LEGEND ORIENTATION

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



15,16. LEGEND 2,3⁶

00 No legend

Notes:

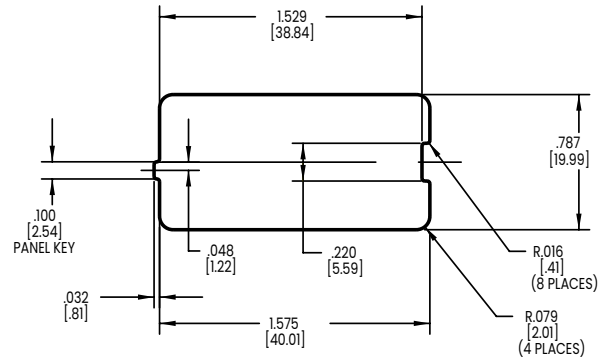
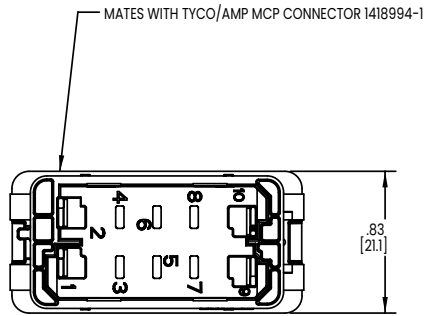
- Indicates 1/2 travel for actuator.
- Snap-Action Contact Mechanism
- Not available with circuit 98.
- Available with circuit 98 only.
- Located over T1-2.
- Legend 2 located in center of rocker, Legend 3 located over T9-10. Legend 2 options are limited due to a very small marking area. Consult factory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

[Configure Complete Part Number >](#)

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Dimensional Specs

inches [millimeters]



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

