INTRODUCING...S-Series Rocker Switches



S-Series Rocker Switches

Carling Technologies is pleased to introduce the S-Series rocker switch, designed for use in the enclosed cabs of today's trucks, providing the vehicle operator with easily recognizable and simple to operate controls.

FEATURES:

- Abbreviated travel ½ throw actuators
- Ergonomic rockers
- Illumination in up to three detent switch positions
- A non-teasable snap action circuit
- 10A, 24VDC rating
- Space saving compact envelope with clean bezel-less design
- Integrated low insertion force connector and polarized switch base for quick installation
- Illumination and switch circuitry is easily accommodated with the 10 terminal base

These great features, combined with over 1000 available laser etched or padprinted legends, allow the S-Series to be seamlessly incorporated into just about any cab interior environment.

General Specifications:

Electrical

Contact Rating 10A @ 24VDC

Dielectric Strength 1500 Volts RMS between pole to

pole

Insulation Resistance . . . 50 Megaohms

Initial Contact Resistance. 10 milliohms max. @ 4VDC

50,000 cycles momentary circuit at

rated voltage and current

Contact Material. Silver tin-oxide

Operating Temperature. . . -40°C to +85°C Circuitry SP, DP 2 & 3 position,

1/2 or full throw

Contact Bounce <20 milliseconds

Mechanical

Endurance 250,000 cycles minimum

Physical

Lighted LED - rated 100,000 hours 1/2 life (LED is internally ballasted for volt-

ages to 24VDC.)

Bracket..... Acetal Nylon 66 GF Polycarbonate 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 Temperature . . -40°C to +85°C

Per IEC 68-2.6 test Fc and 68-2.47

Test Criteria - no noise or contact

chatter below 10ms.

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 resist-

ance.

Handling Shock Drop from height of 1 meter, 3 times,

4 sides. Test criteria - No loss of circuit during test, pre & post test con-

tact resistance.

Per IEC 68-2-14, -40°C to +85°C. Thermal Shock

Test criteria - pre & post test contact

resistance.

Mounting Specifications

40mm x 20mm keyed hole (see di-Snap in Mount

mensional specifications for details.)

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Carling Technologies, Inc.

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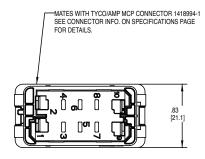
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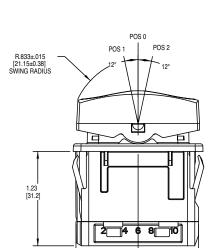
Phone: (860) 793-9281 Fax: (860) 793-9231

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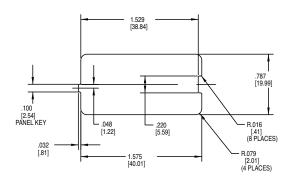
Web: carlingtech.com

Dimensional Specifications in. [mm.]:

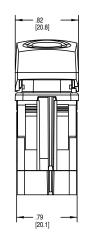


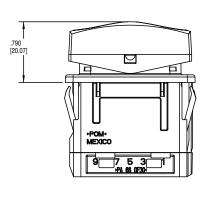


1.60 [40.6]



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





entation

Legend Ori- Legend 2 Legend 3



Actuator

1 SERIES S S-Series

Ratina

2 CIRCUIT Terminal Connections as viewed from bottom of switch: () - momentary reminial oblitom of switch: 1 - 2 3 - 4 5 - 6 7 - 8 9 - 10 Position: SP DP 5 & 7, 6 & 8 16 26 ON 18 28 (ON) SPECIAL CIRCUITS 31 ON 42 52 (ON) 43 53 (ON) 44 54 ON 45 55 (ON) 46 56 NONE 75 NONE 75 NONE SP - single pole uses terminals 3, 5 & 7. DP - double pole uses terminals 3, 5, 7 & 4, 6, 8. 2 Connected Terminals 3 & 5, 4 & 6 ON (ON) OFF OFF 4, 5, 6, 7 OFF OFF 3 & 5 3 & 5 OFF 5 & 7 5 & 7 OFF NONE¹ 51 52 53 54 55 56 57 75 98² NONE¹ NONE¹ NONE¹ ON ON (ON) (3 & 5, 4 & 6) (5 & 9, 4 & 6) NONE (5 & 7, 3 & 6) (5 & 7, 2 & 6)

Illumination Lamp 1

Lamp 2

Lamp 3

3 RATING

0.4VA 28VDC Resistive 10.5mA 1.5A 28VDC, 5A 28V 50A Inrush Lamp Load **A**3 **B**⁴ **C**³ 3.5A 28VDC, 18A Inrush 10mA 10A 28VDC

4 ILLUMINATION				
MINALS				

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 (-). 0 No lamp LED 12VDC 24VDC Red **A B** Orange C D Yellow Green H J

Legend 1

8 BRACKET COLOR

Black Dark Carbon 4

9 ACTUATOR

Leaend

Leaend

Leaend

Black Titan Gray Dark Carbon Standard Rocker, Laser Etched Ν

10, 11, 12 LEGEND COLOR

Z No legend 1 Clear

13 LEGEND 15

00 No legend

14 LEGEND ORIENTATION

0 No legend Orientation 1 2 Orientation 2 Orientation 3

3 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.

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.

