



4S1& 4SS-Series Sub-Miniature & Sealed Sub-Miniature Slide Switches

**Specifications** 

Contact Rating . . . . . . refer to ordering scheme

Electrical Life . . . . . . . . . 30,000 make & break cycles at full

load

Contact Resistance. . . . . . 10 m $\Omega$  max. initial @ 2-4 VDC

100mA for both silver & gold plated

contacts.

Insulation Resistance . . . 1000 M $\Omega$  min.

Dielectric Strength . . . . . . 1500 Volts RMS @ sea level

Operating Temperature . . . -30°C to +85°C

Solder Heat Resistance. . . MIL-STD-202, Method 210

Actuator Travel . . . . . . . . 25°

**Materials** 

Case . . . . . . . . . Dially phthalate (DAP) (UL 94V-0)

Slide Handle.....Nylon

Housing. . . . . . . . . . . . . . . . Stainless Steel

Terminal Seal . . . . . . . . Epoxy

**4S1-Series Ordering Scheme** 





4M1-Series

Miniature Slide Switch









Series

4S1 Sub-Miniature Slide Switch

2 POLES FSP single pole

**3 CIRCUIT** 

**Switching Position:** 2-1 ON ON OPEN NONE OFF 2-3 ON ON 1

4 TERMINATION

M2 PCB M6 PC Mount, 90° horizontal

**5 CONTACT** Material

Terminal Plating

Rating 3A@125VAC or 28VDC; 1.5A @ 250VAC 0.4VA max. @20V max (AC/DC) 3A@125VAC or 28VDC; 1.5A @ 250VAC 3A@125VAC or 28VDC; 1.5A @ 250VAC 0.4VA max. @20V max (AC/DC) gold over silver<sup>3</sup> tin-lead<sup>4</sup> silver1 gold<sup>2</sup> tin-lead4 silver1

Packaging

Q R silver1 silver1 gold<sup>2</sup> gold

NOTE:

Tin-lead option available with PC type terminations only.

Moveable contact & terminals: copper alloy, silver plate Moveable contact & terminals: copper alloy with gold plate over nickel plate Terminals: silver plate with outer layer in gold plating

6 EPOXY SEAL

Ε epoxy seal 7 PACKAGING

Switches are bulk packed, unless **T/R** is specified at the end of the part number. **T/R** tape reel - 500 pieces per reel



#### **4SS-Series Ordering Scheme**



1 SERIES 4SS Sealed Sub-Miniature Slide Switch

2 POLES FSP single pole

**3 CIRCUIT** 

1

Switching Position: 2-1 ON ON **OPEN** *2-3* ON ON NONE OFF

Termination options for switches with brick color actuators

M6 PC Mount, 90° horizontal M7 PC Mount, 90° vertical

Termination options for switches with white color actuators L6 Surface Mount, 90° flat

Surface Mount, 90° horizontal Surface Mount, 90° vertical

5 CONTACT

Terminal Plating

Material Rating 3A@125VAC or 28VDC; 1.5A @ 250VAC gold over silver tin-lead4 silver1 gold<sup>2</sup> 0.4VA max. @20V max (AC/DC) 3A@125VAC or 28VDC; 1.5A @ 250VAC K P tin-lead silver1 R gold<sup>2</sup> gold<sup>2</sup> 0.4VA max. @20V max (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.

Moveable contact & terminals: copper alloy, silver plate Moveable contact & terminals: copper alloy with gold plate over nickel plate Terminals: silver plate with outer layer in gold plating Outer terminals: copper alloy with tin-lead over nickel plate

**6 EPOXY SEAL** 

Ε epoxy seal

7 PACKAGING

witches are bulk packed, unless T/R is specified at the end of the part number.

T/R tape reel - 500 pieces per reel

## 4M1-Series Ordering Scheme



4M1 Miniature Slide Switch

2 POLES SDP double pole SSP single pole

3 CIRCUIT Switching Position *2-1, 5-4* ON ON *2-3, 5-6* ON **OPFN** NONE 3

**4 ACTUATOR** .201 [5.10] high .285 [7.25] high .370 [9.40] high S<sub>2</sub> .140 [3.55] high .053 [1.35] high (for DPDT only) .482 [12.25] high **S5** .311 [7.90] high .201 [5.10] high (for DPDT only)

5 ACTUATOR COLOR<sup>1</sup> 1 white yellow 7 blue 9 gray 2 black 4 orange 6 green 8 brown White, black & red are standard. Other colors available for quantities of 5K or more.

**6 TERMINATION** M5-3 Wire Wrap [10.80] M1 M2 Solder Lug PCB M5-4 Wire Wrap [26.97]
M6 PC Mount, 90° horizontal **Quick Connect** PC Mount, 90° vertical **M5-1** Wire Wrap .750 [19.05] **M5-2** Wire Wrap [24.48] VS2 PC Mount, U bracket, .620 mounting x .460 high

7 CONTACT Rating 5A@125VAC or 28VDC; 2A@250VAC Material Terminal Plating Approvals gold over silver UL, CSA G silver1 0.4VA max. @20V max (AC/DC) 5A@125VAC or 28VDC; 2A @ 250VAC tin-lead4 gold<sup>2</sup> silver1 UL, CSA tin-lead<sup>6</sup> Q silver1 silver1 5A@125VAC or 28VDC; UL, CSA 2A @ 250VAC **R** gold<sup>2</sup> NOTE: gold<sup>2</sup> 0.4VA max. @20V max (AC/DC)

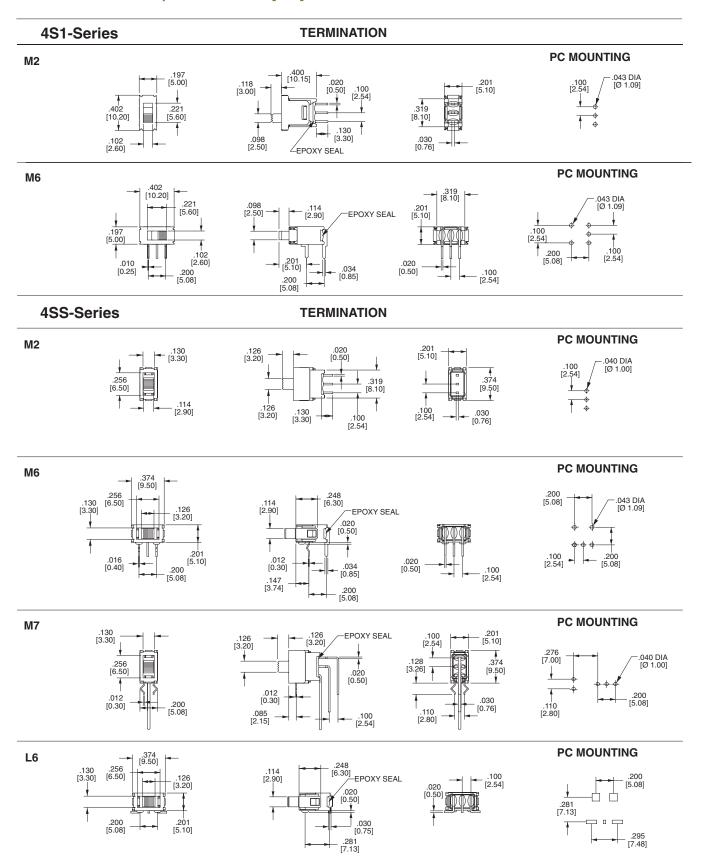
Tin-lead option available with PC type terminations only.

Moveable contact & terminals: copper alloy, silver plate
Moveable contact & terminals: copper alloy with gold plate over nickel plate
Terminals: silver plate with outer layer in gold plating
Outer terminals: copper alloy with tin-lead over nickel plate

**8 EPOXY SEAL** Е epoxy seal

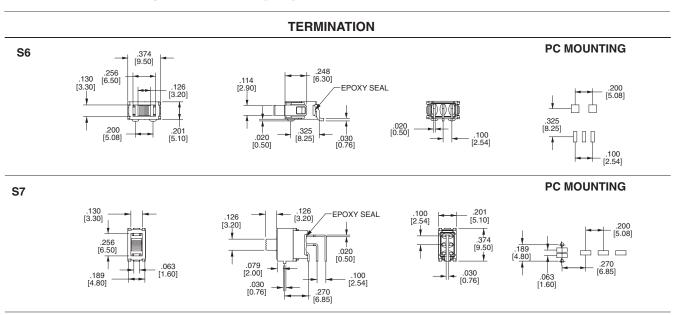


## 4S-Series Dimensional Specifications: in. [mm]

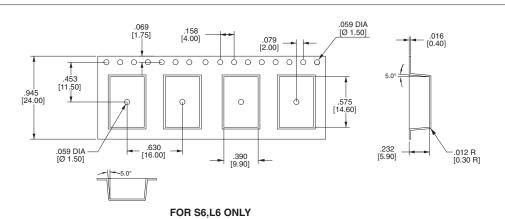


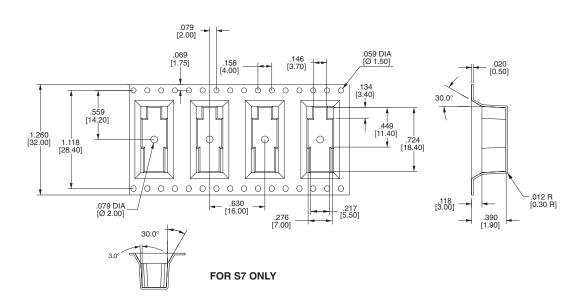


### 4SS-Series Dimensional Specifications: in. [mm]



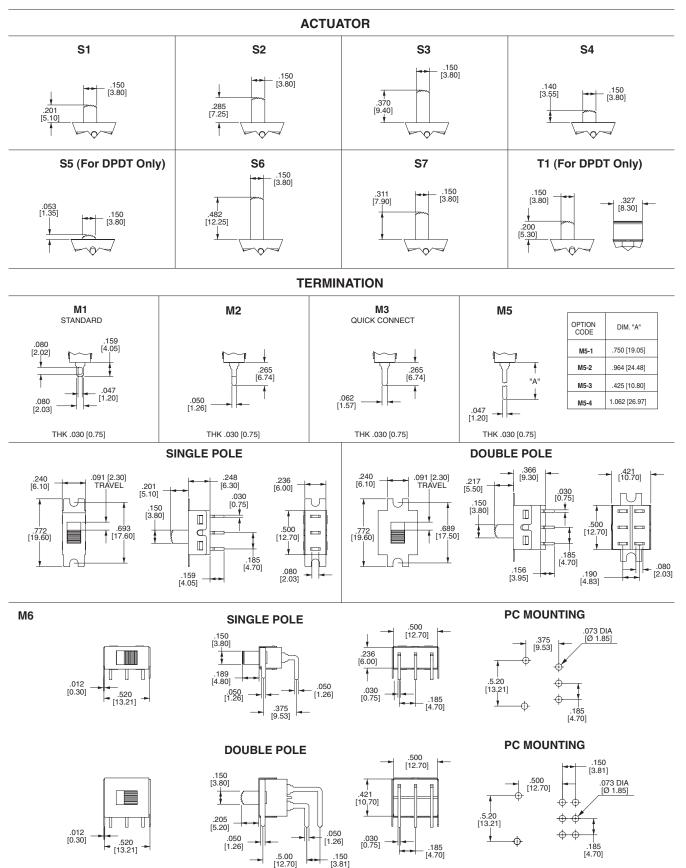
#### **REEL TAPING**





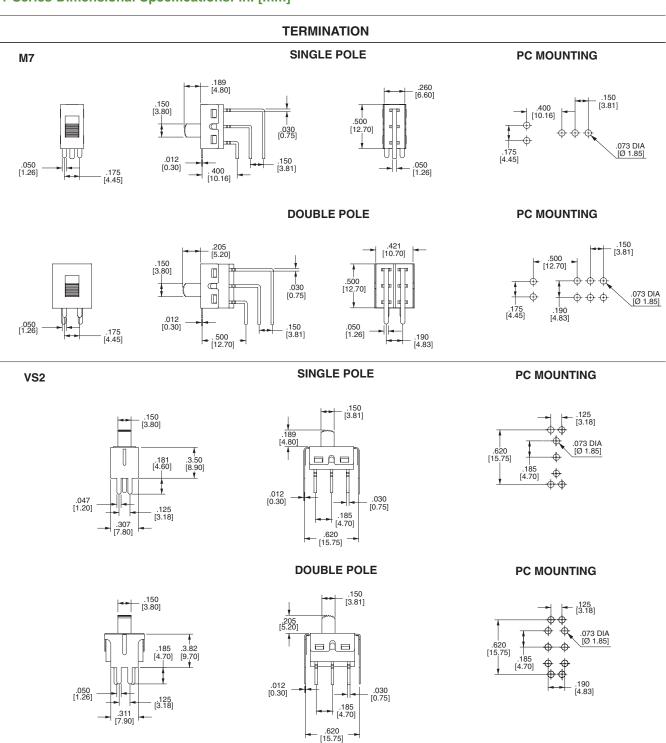


## 4M1-Series Dimensional Specifications: in. [mm]





## 4M1-Series Dimensional Specifications: in. [mm]



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## Carling Technologies:

4S1-FSP1-M2RE 4M1-SSP1-S1/1-M1QE 4M1-SSP1-S1/1-M2QE 4M1-SSP1-S1/1-M2RE 4M1-SSP1-S1/1-M6RE