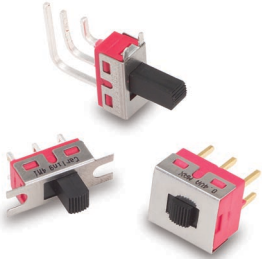


4S1 & 4SS-Series
Sub-Miniature &
Sealed Sub-Miniature
Slide Switches



4M1-Series
Miniature Slide Switch

Specifications

Contact Rating refer to ordering scheme
 Electrical Life 30,000 make & break cycles at full load
 Contact Resistance. 10 mΩ max. initial @ 2-4 VDC
 100mA for both silver & gold plated contacts.
 Insulation Resistance . . . 1000 MΩ 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 Diallyl phthalate (DAP) (UL 94V-0)
 Slide Handle. Nylon
 Housing. Stainless Steel
 Terminal Seal Epoxy

4S1-Series Ordering Scheme

4S1 - **FSP** **1** - **M6** **Q** **E**

1 2 3 4 5 6 7
Series Poles Circuit Termination Contact Seal Packaging

1 SERIES

4S1 Sub-Miniature Slide Switch

2 POLES

FSP single pole

3 CIRCUIT

Switching Position:

	2-1	OPEN	2-3
1	ON	NONE	ON
2	ON	NONE	(ON)
3	ON	OFF	ON

4 TERMINATION

M2 PCB
M6 PC Mount, 90° horizontal

5 CONTACT

	Material	Terminal Plating	Rating
G	silver ¹	gold over silver ³	3A@125VAC or 28VDC; 1.5A @ 250VAC
K	gold ²	tin-lead ⁴	0.4VA max. @20V max (AC/DC)
P	silver ¹	tin-lead ⁴	3A@125VAC or 28VDC; 1.5A @ 250VAC
Q	silver ¹	silver ¹	3A@125VAC or 28VDC; 1.5A @ 250VAC
R	gold ²	gold ²	0.4VA max. @20V max (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.
 1 Moveable contact & terminals: copper alloy, silver plate
 2 Moveable contact & terminals: copper alloy with gold plate over nickel plate
 3 Terminals: silver plate with outer layer in gold plating

6 EPOXY SEAL

E 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

4SS -
 FSP
1 -
 M6
G
E

1
Series
2
Poles
3
Circuit
4
Termination
5
Contact
6
Seal
7
Packaging

1 SERIES

4SS Sealed Sub-Miniature Slide Switch

2 POLES

FSP single pole

3 CIRCUIT

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

4 TERMINATION

Termination options for switches with brick color actuators

M2 PCB

M6 PC Mount, 90° horizontal

M7 PC Mount, 90° vertical

Termination options for switches with white color actuators

L6 Surface Mount, 90° flat

S6 Surface Mount, 90° horizontal

S7 Surface Mount, 90° vertical

5 CONTACT

	Material	Terminal Plating	Rating
G	silver ¹	gold over silver ³	1.5A @ 125VAC or 28VDC; 1.5A @ 250VAC
K	gold ²	tin-lead ⁴	0.4VA max. @ 20V max (AC/DC)
P	silver ¹	tin-lead ⁴	1.5A @ 125VAC or 28VDC; 1.5A @ 250VAC
R	gold ²	gold ²	0.4VA max. @ 20V max (AC/DC)

NOTE:

Tin-lead option available with PC type terminations only.

1 Moveable contact & terminals: copper alloy, silver plate

2 Moveable contact & terminals: copper alloy with gold plate over nickel plate

3 Terminals: silver plate with outer layer in gold plating

4 Outer terminals: copper alloy with tin-lead over nickel plate

6 EPOXY SEAL

E 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

4M1-Series Ordering Scheme

4M1 -
 SSP
3 -
 S1 /
 2 -
 M6
Q
E

1
Series
2
Poles
3
Circuit
4
Actuator
5
Actuator
Color
6
Termination
7
Contact
8
Seal

1 SERIES

4M1 Miniature Slide Switch

2 POLES

SSP single pole **SDP** double pole

3 CIRCUIT Switching Position

	2-1, 5-4	OPEN	2-3, 5-6
1	ON	NONE	ON
3	ON	OFF	ON

4 ACTUATOR

S1 .201 [5.10] high

S2 .285 [7.25] high

S3 .370 [9.40] high

S4 .140 [3.55] high

S5 .053 [1.35] high (for DPDT only)

S6 .482 [12.25] high

S7 .311 [7.90] high

T1 .201 [5.10] high (for DPDT only)

5 ACTUATOR COLOR¹

1 white	3 red	5 yellow	7 blue
2 black	4 orange	6 green	8 brown
9 gray			

¹ White, black & red are standard. Other colors available for quantities of 5K or more.

6 TERMINATION

M1 Solder Lug

M2 PCB

M3 Quick Connect

M5-1 Wire Wrap .750 [19.05]

M5-2 Wire Wrap [24.48]

M5-3 Wire Wrap [10.80]

M5-4 Wire Wrap [26.97]

M6 PC Mount, 90° horizontal

M7 PC Mount, 90° vertical

VS2 PC Mount, U bracket,

.620 mounting x .460 high

7 CONTACT

	Material	Terminal Plating	Rating	Approvals
G	silver ¹	gold over silver ³	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
K	gold ²	tin-lead ⁴	0.4VA max. @ 20V max (AC/DC)	
P	silver ¹	tin-lead ⁴	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
Q	silver ¹	silver ¹	5A @ 125VAC or 28VDC; 2A @ 250VAC	UL, CSA
R	gold ²	gold ²	0.4VA max. @ 20V max (AC/DC)	

NOTE:

Tin-lead option available with PC type terminations only.

1 Moveable contact & terminals: copper alloy, silver plate

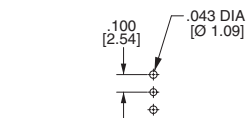
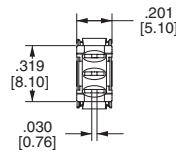
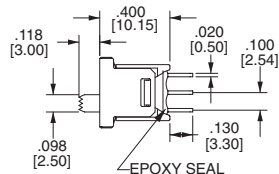
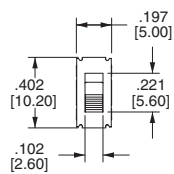
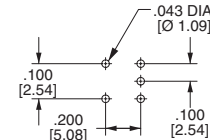
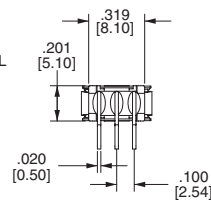
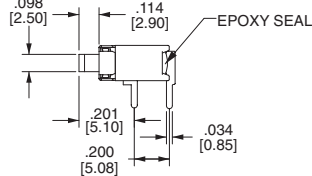
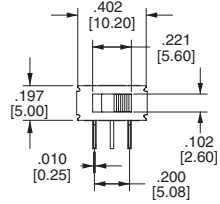
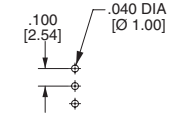
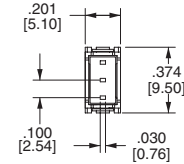
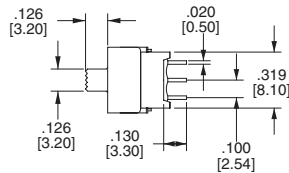
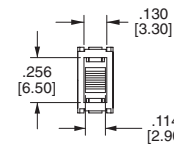
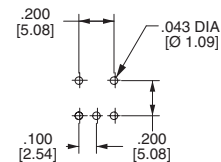
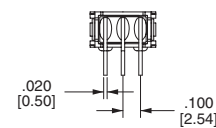
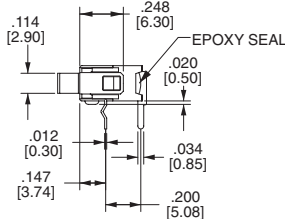
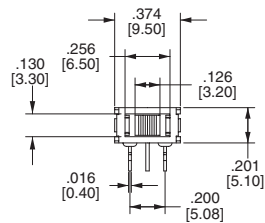
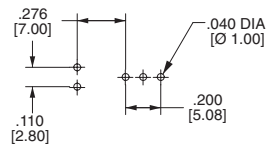
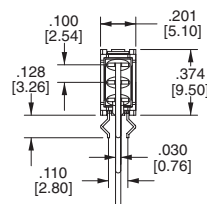
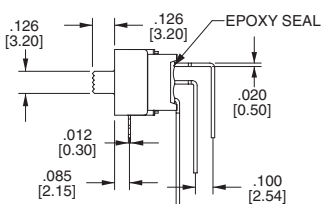
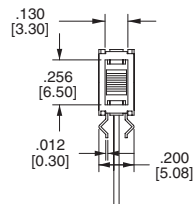
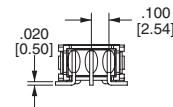
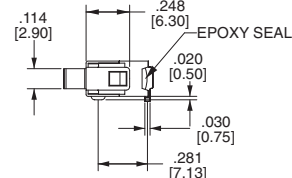
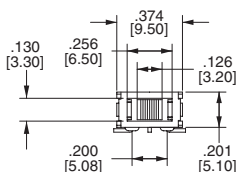
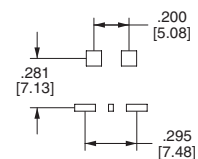
2 Moveable contact & terminals: copper alloy with gold plate over nickel plate

3 Terminals: silver plate with outer layer in gold plating

4 Outer terminals: copper alloy with tin-lead over nickel plate

8 EPOXY SEAL

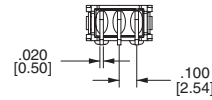
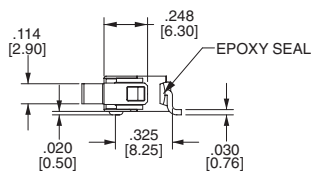
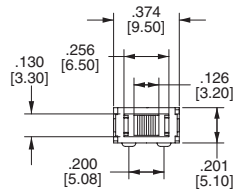
E epoxy seal

4S-Series Dimensional Specifications: in. [mm]
4S1-Series
TERMINATION
PC MOUNTING
M2

M6

4SS-Series
TERMINATION
PC MOUNTING
M2

M6

M7

L6

PC MOUNTING


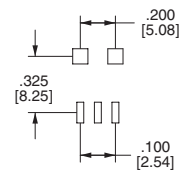
4SS-Series Dimensional Specifications: in. [mm]

TERMINATION

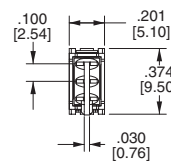
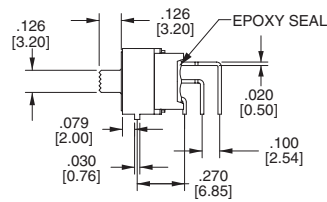
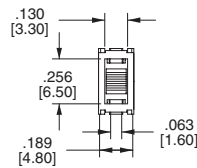
S6



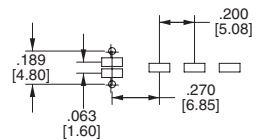
PC MOUNTING



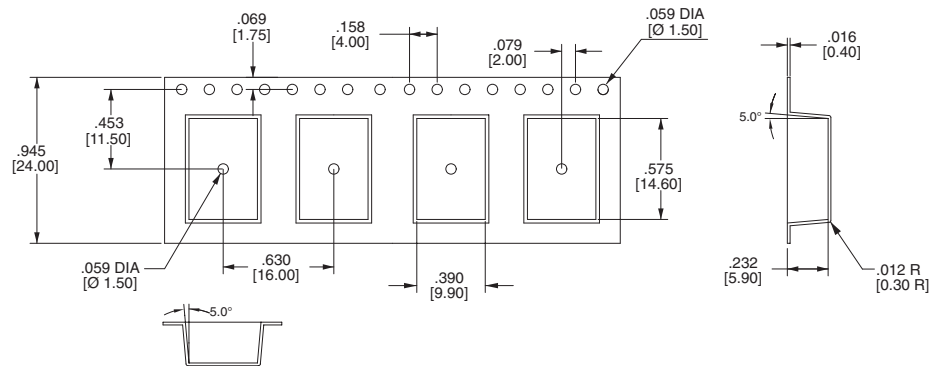
S7



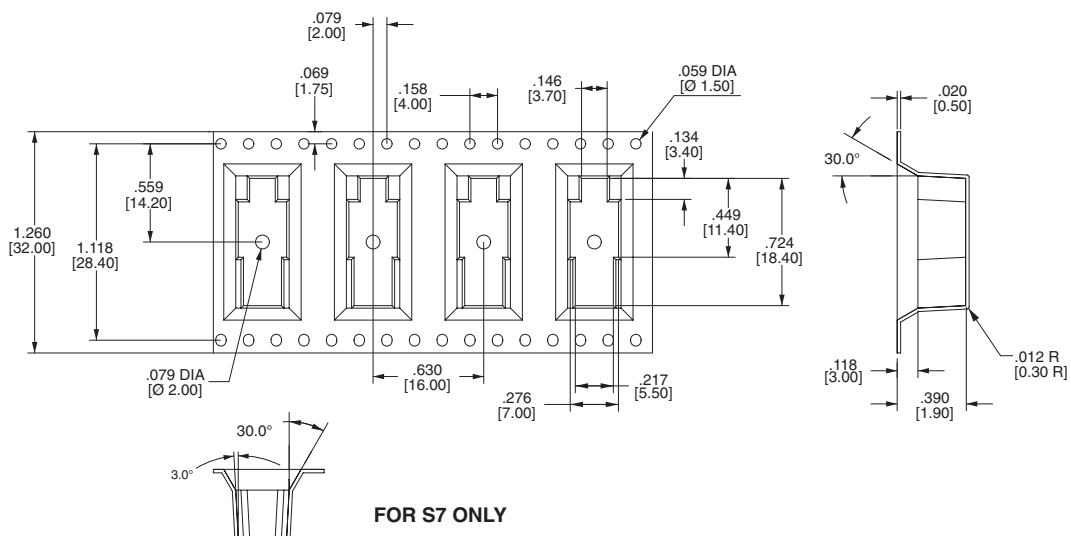
PC MOUNTING



REEL TAPING

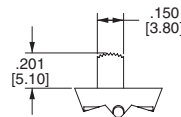
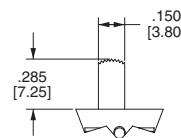
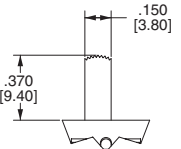
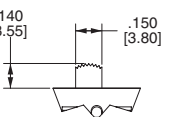
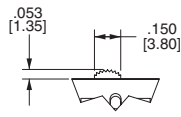
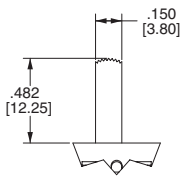
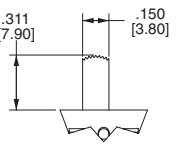
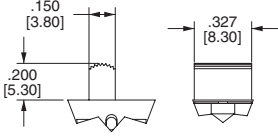


FOR S6,L6 ONLY



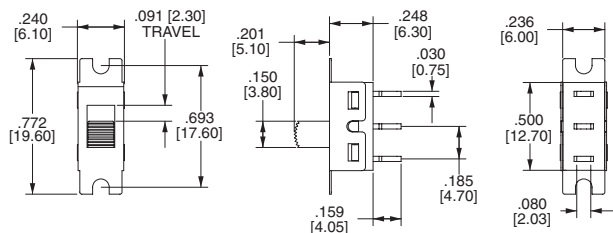
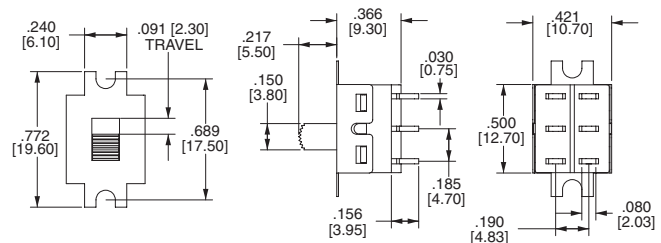
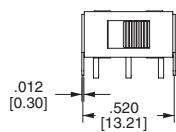
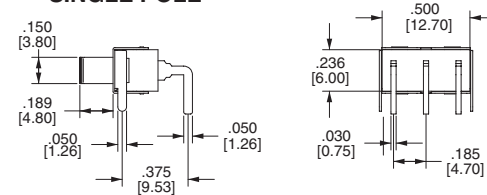
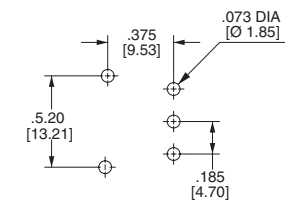
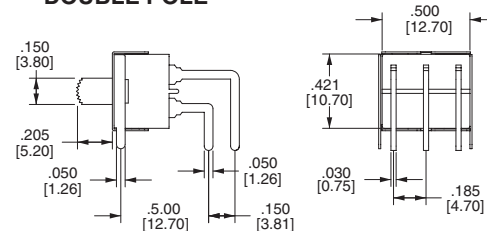
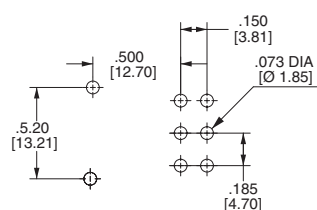
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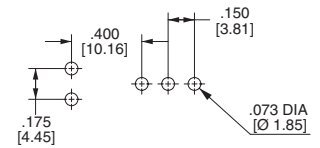
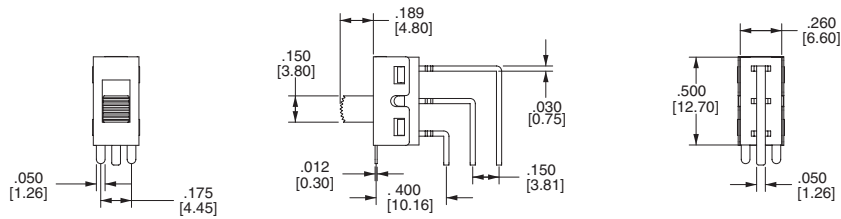
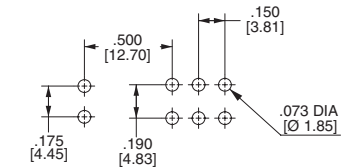
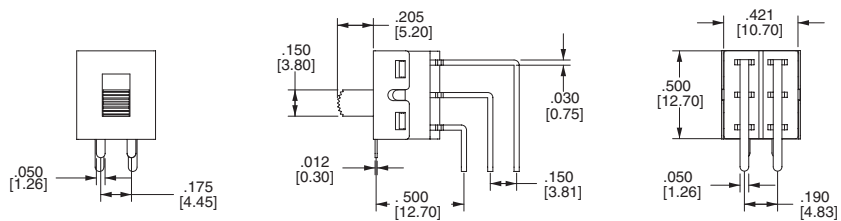
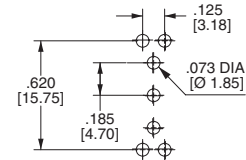
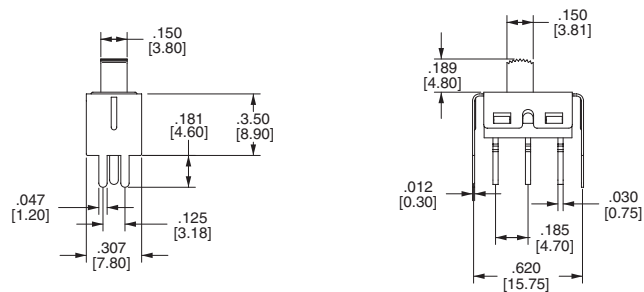
4M1-Series Dimensional Specifications: in. [mm]
ACTUATOR

S1 	S2 	S3 	S4 
S5 (For DPDT Only) 	S6 	S7 	T1 (For DPDT Only) 

TERMINATION

M1 STANDARD THK .030 [0.75]	M2 THK .030 [0.75]	M3 QUICK CONNECT THK .030 [0.75]	M5 THK .030 [0.75]	<table><tr><th>OPTION CODE</th><th>DIM. "A"</th></tr><tr><td>M5-1</td><td>.750 [19.05]</td></tr><tr><td>M5-2</td><td>.964 [24.48]</td></tr><tr><td>M5-3</td><td>.425 [10.80]</td></tr><tr><td>M5-4</td><td>1.062 [26.97]</td></tr></table>	OPTION CODE	DIM. "A"	M5-1	.750 [19.05]	M5-2	.964 [24.48]	M5-3	.425 [10.80]	M5-4	1.062 [26.97]
OPTION CODE	DIM. "A"													
M5-1	.750 [19.05]													
M5-2	.964 [24.48]													
M5-3	.425 [10.80]													
M5-4	1.062 [26.97]													

SINGLE POLE

DOUBLE POLE

M6

SINGLE POLE

PC MOUNTING

DOUBLE POLE

PC MOUNTING


4M1-Series Dimensional Specifications: in. [mm]
TERMINATION
M7
SINGLE POLE
PC MOUNTING

DOUBLE POLE
PC MOUNTING

VS2
SINGLE POLE
PC MOUNTING

DOUBLE POLE
PC MOUNTING
