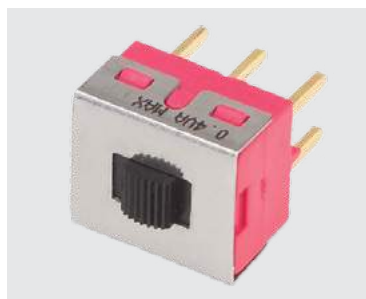
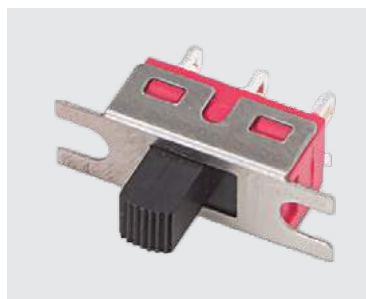
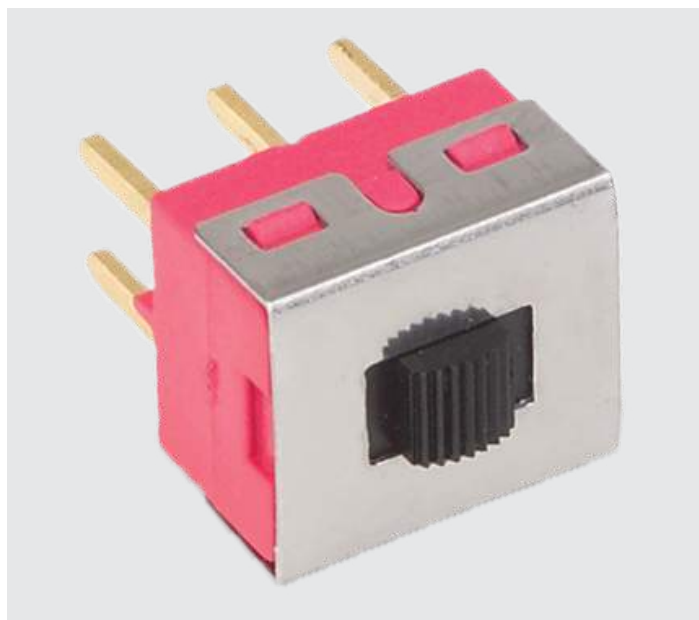


4M-Series

MINIATURE SLIDE SWITCHES

The 4M-Series miniature slide switches offer a variety of ratings, circuits, contact materials, and terminal platings. With 14 termination choices and 8 actuator styles, this versatile switch adapts to a variety of applications, and is able to withstand temperatures from -30°C to +85°C.



Product Highlights:

- ♦ Two or Three Position Circuitry
- ♦ 125/250VAC or up to 28VDC
- ♦ Available in Silver, Gold or Tin Plating
- ♦ Supplied in Bulk or Tape Reel
- ♦ UL and CSA Approvals Available

Typical Applications:

- ♦ Consumer Electronics
- ♦ Instrumentation
- ♦ Computer Servers / Peripherals
- ♦ Test / Measurement

Resources:

Download 3D CAD Files

IGS > **STP >**



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www.carlingtech.com

Electrical

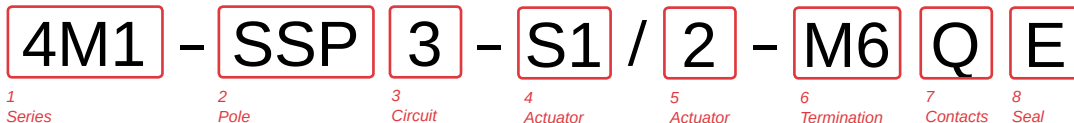
Contact Rating	refer to ordering scheme
Electrical Life	30,000 make & break cycles @ full load
Contact Resistance	10 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts
Insulation Resistance	1000 MΩ min.
Dielectric Strength	1500 Volts RMS @ sea level

Physical

Operating Temperature	-30°C to +85°C
Solder Heat Resistance	MIL-STD-202, Method 210

Material

Case	Dially phthalate (DAP) (UL 94V-0)
Slide Handle	Nylon
Housing	Stainless Steel
Terminal Seal	Epoxy

**1 SERIES**

4M1 Miniature Slide Switch

2 POLES

SSP Single Pole **SDP** Double Pole

3 CIRCUIT

() - momentary

Switching Position:	1	2	3
	2-1, 5-4	Connected Terminals	2-3, 5,6
1	ON	NONE	ON
3	ON	OFF	ON

4 ACTUATOR

S1 .201" height	S5 .053" height (for DPDT only)
S2 .301" height	S6 .488" height
S3 .370" height	S7 .311" height
S4 .140" height	T1 .209" height (for DPDT only)

5 ACTUATOR COLORS

1 White	6 Green
2 Black	7 Blue
3 Red	8 Brown
4 Orange	9 Gray
5 Yellow	

6 TERMINATION

M1 Solder Lug	M61 Snap-In, 90°
M2 PCB	M7 PC Mount, 90° vertical
M3 Quick Connect	M71 Snap-In, 90°
M5-1 Wire Wrap .750	VS2 PC Mount, U bracket, .350 height
M5-2 Wire Wrap .964	VS3 PC Mount, U bracket, .575 height
M5-3 Wire Wrap .425	N1 Solder Lug without mounting tabs
M5-4 Wire Wrap 1.062	
M6 PC Mount, 90° horizontal	

7 CONTACTS / TERMINALS

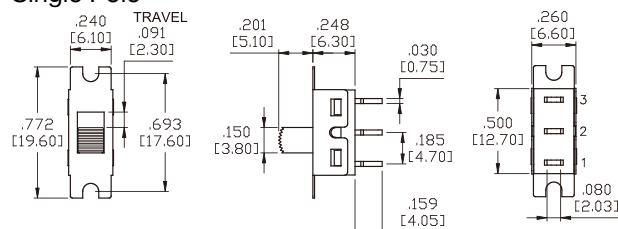
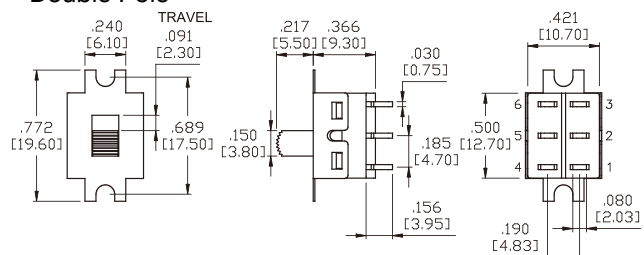
	Contact Material	Terminal Plating	Rating	Approvals
G	silver ¹	gold over silver	5A 125VAC or 28VDC 2A 250VAC	
K	gold ²	tin ^{3,5}	0.4VA max 20V max (AC/DC)	N/A
P	silver ¹	tin ^{3,5}	5A 125VAC or 28VDC 2A 250VAC	
Q	silver ¹	silver ¹	5A 125VAC or 28VDC 2A 250VAC	
R	gold ²	gold ²	0.4VA max 20V max (AC/DC)	N/A

8 EPOXY SEAL

E Epoxy Seal	0 without Epoxy Seal
---------------------	-----------------------------

Notes:

- 1 Movable contact & terminal platings: silver over copper alloy
- 2 Movable contact & terminal platings: gold over nickel over copper alloy
- 3 Terminals platings: tin over nickel over copper alloy, available with PC terminations only
- 4 Non-Black, white and red colors require a minimum order of 2500 pieces
- 5 Tin option available with PC type terminations only

4M1-Series Dimensional Specifications: in. [mm]**Single Pole****Double Pole**

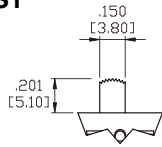
*Manufacturer reserves the right to change product specification without prior notice.

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

Actuator Options

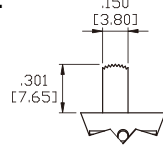
* All actuator length shown is SPDT model with M1 and M2 terminals.

S1



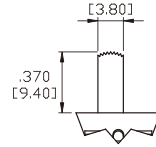
* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

S2



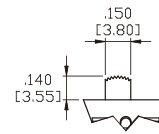
* Add 0.20 (.008) from actuator height for DPDT-M1 and M2 model.

S3



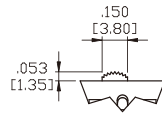
* Add 0.30 (.012) from actuator height for DPDT-M1 and M2 model.

S4

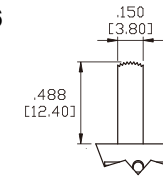


* Add 0.40 (.016) from actuator height for DPDT-M1 and M2 model.

S5

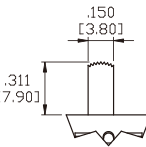


S6



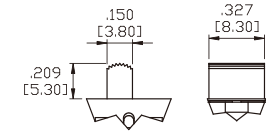
* Add 0.70 (.028) from actuator height for DPDT-M1 and M2 model.

S7



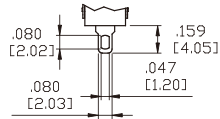
* Add 0.40 (.016) from actuator height for DPDT model.

T1 for DPDT only



Termination Options

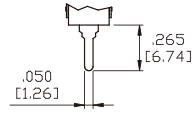
M1 Standard Solder Lug



THK .030 [0.75]

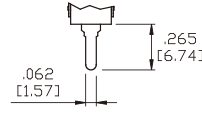
* Standard with Mounting Tabs.

M2 PC Thru-Hole



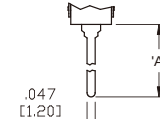
THK .030 [0.75]

M3 Quick Connect



THK .030 [0.75]

M5 Wire Wrap

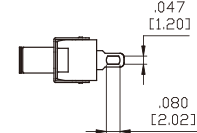
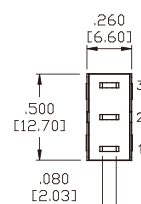
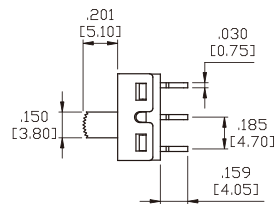
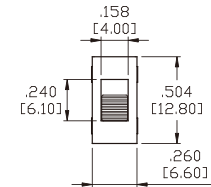


THK .030 [0.75]

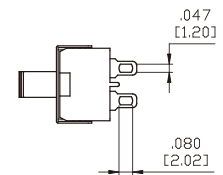
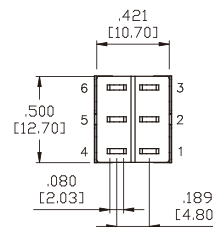
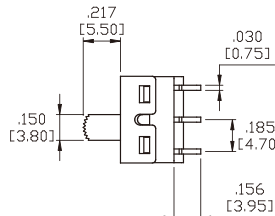
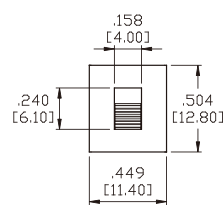
OPTION CODE	DIM.'A'
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

Termination Options without Mounting Tabs

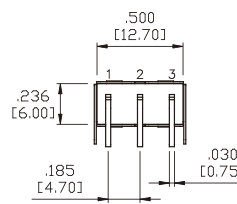
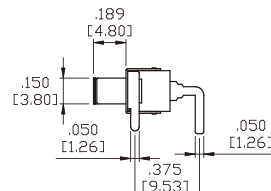
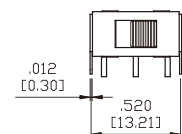
N1 Single Pole



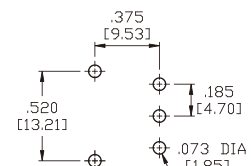
N1 Double Pole



M6 Single Pole



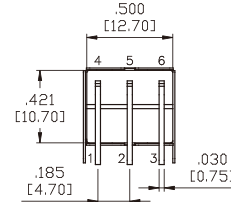
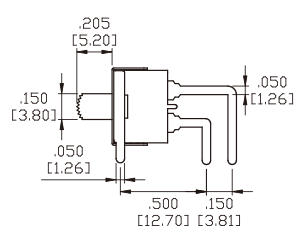
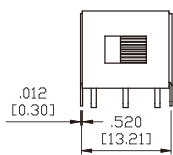
P.C. MOUNTING



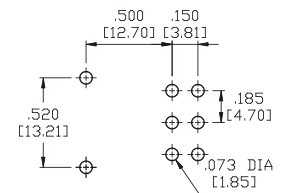
4M1-Series Dimensional Specifications: in. [mm]

Termination Options

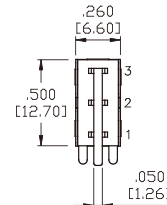
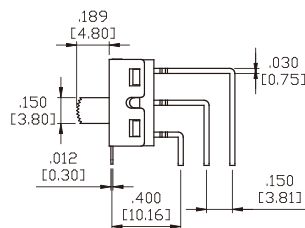
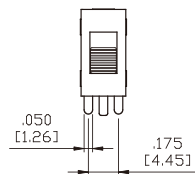
M6 Double Pole



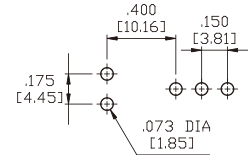
P.C.MOUNTING



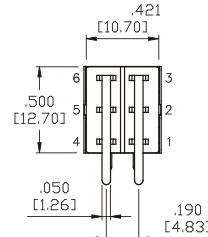
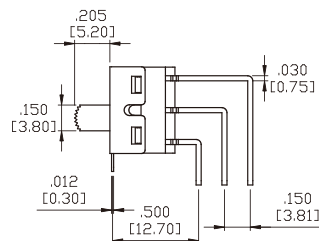
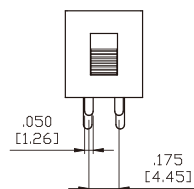
M7 Single Pole



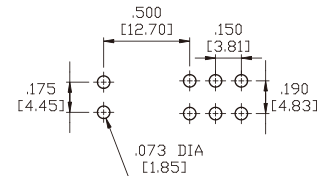
P.C.MOUNTING



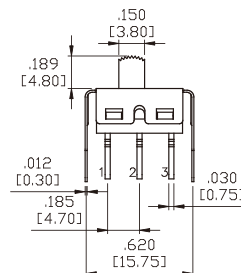
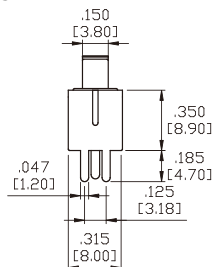
M7 Double Pole



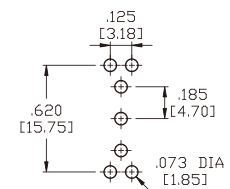
P.C.MOUNTING



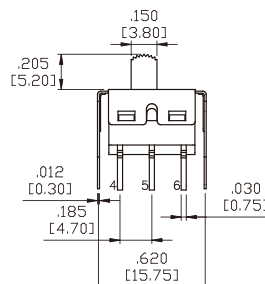
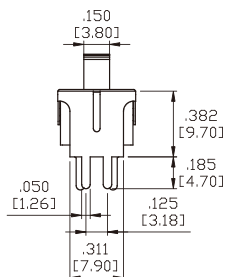
VS2 Single Pole



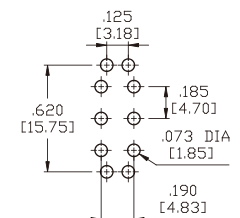
P.C.MOUNTING



VS2 Double Pole



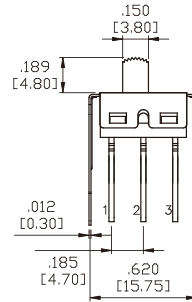
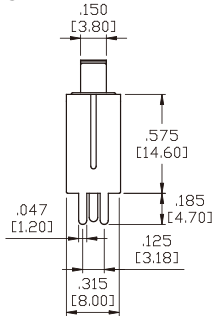
P.C.MOUNTING



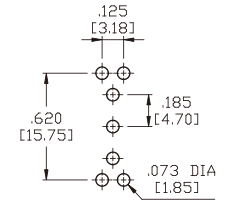
4M1-Series Dimensional Specifications: in. [mm]

Termination Options

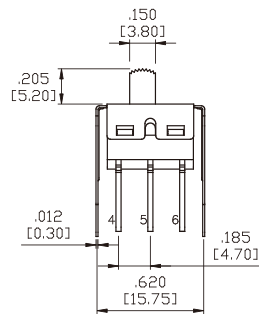
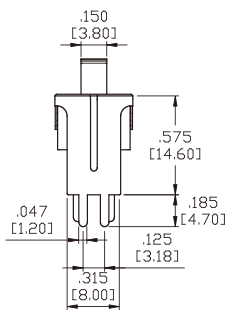
VS3 Single Pole



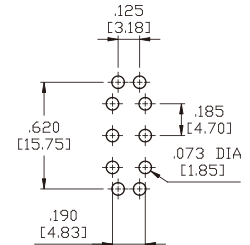
P.C.MOUNTING



VS3 Double Pole



P.C.MOUNTING



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To view all of Carling's environmental, quality, health & safety certifications please visit www.carlingtech.com/environmental-certifications

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