

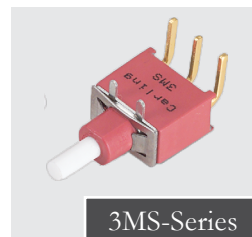
3M-Series

MINIATURE PUSHBUTTONS

The 3M family of miniature pushbutton switches is composed of four switch series; the **3MNH-Series** premium sealed snap-action pushbutton, the **3MN-Series** snap-action pushbutton, the **3MS-Series** sealed snap-action pushbutton, and the **3MA-Series** alternate-action pushbutton. These PC mount pushbutton switches offer a variety of ratings, circuits, contact materials, terminal platings, pushbutton styles, and optional color caps.



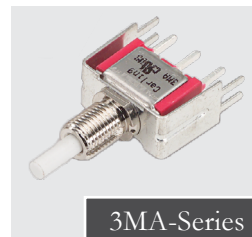
3MNH-Series



3MS-Series



3MN-Series



3MA-Series

Product Highlights:

- IP67 Sealing
- Snap Action Contact Mechanism
- Variety of Plunger and Bushing Lengths
- Up to 14 Termination Choices
- UL and cUL Approvals
- Sleek Black Finish

Typical Applications:

- Telecommunications
- Performance Audio
- Networking
- Computers
- Instrumentation
- Low Power On/Off Designs

Resources:

[Configure a Complete Part](#)

[**Download CAD & Sales Drawing >**](#)



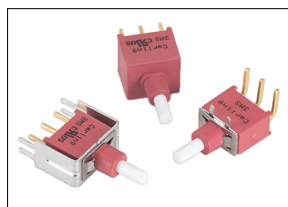
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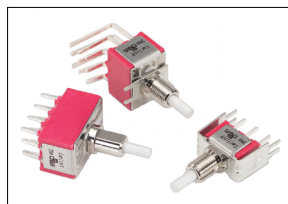
3MNH-Series
Premium Sealed
Miniature Pushbutton Switch



3MS-Series
Sealed Snap-Action
Miniature Pushbutton Switch



3MN-Series
Snap-Action
Miniature Pushbutton Switch



3MA-Series
Alternate Action
Miniature Pushbutton Switch

Electrical

Contact Rating	refer to ordering scheme
Electrical Life	50,000 make & break cycles @ full load
Contact Resistance	3MS-Series: 50 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts. 3MN, 3MA & 3NMH-Series: 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
Index of Protection	3MS-Series: IP68 3MNH-Series: IP67
Cap Installation Support	3MS-Series: 10 lbs. max.
Solder Heat Resistance	MIL-STD-202, Method 210

Material

Case	3MS-Series: Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0) 3MN, 3MA & 3NMH-Series: Diallyl phthalate (DAP) (UL 94V-0)
Plunger	3MS & 3MA-Series: Glass filled nylon or glass filled polyester (UL94V-0) 3MN-Series: Thermoplastic polyester, black 3NMH-Series: Brass, black finish with o-ring seal
Bushing	3MN-Series: Brass, nickel plated 3MA-Series: Zinc, nickel plated 3NMH-Series: Brass, black finish with o-ring seal
Housing	3MN & 3MA-Series: Stainless Steel
Switch Support Retainer	3MS-Series: Stainless Steel
Terminal Seal	Epoxy

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

3MNH - **DP** **1** - **PJ** - **BJ** - **M2** - **Q** **E**

1 Series 2 Pole 3 Circuit 4 Plunger 5 Bushing 6 Termination 7 Contacts 8 Seal

1 SERIES**3MNH** Premium Sealed Miniature Pushbutton Switch**2 POLES****SP** Single pole - uses terminals 1, 2 & 3**DP** Double pole - uses terminals 1, 2, 3, 4, 5 & 6**3 CIRCUIT**

() - momentary

Switching Position:	1	2
1	ON	ON
7	ON	(ON)

Note: Plunger at rest in Position 1. Plunger depressed in Position 2.

4 PLUNGER 1**PJ** .325 height [8.25 mm]**PA** .157 height [4.00 mm]**PB** .354 height [9.00 mm]**5 BUSHING 2****BJ**³ Threaded 15/32, flat, .553 height [14.05 mm]**BL**⁴ Threaded 15/32, flat, .295 height [7.49 mm]**6 TERMINATION****M1** Solder Lug**M2** PC thru-hole**M51** Wire wrap, .711" [18.05 mm]**M52** Wire wrap, .924" [23.48 mm]**M53** Wire wrap, .386" [9.80 mm]**7 CONTACTS / TERMINALS**

	Contact Material	Terminal Plating	Rating	Approvals
G	silver ⁵	gold over silver	(SP1, DP1) 6A@125VAC or 28VDC 3A@250VAC (SP7, DP7) 1A@120VAC or 38VDC	c  us, IP67
Q	silver ⁵	silver ⁵	(SP1, DP1) 6A@125VAC or 28VDC 3A@250VAC (SP7, DP7) 1A@120VAC or 38VDC	c  us, IP67
R	gold ⁶	gold ⁷	0.4VA max @ 20V max (AC/DC)	N/A

8 EPOXY SEAL**E** Epoxy Seal

Notes:

- PJ Plunger for maintained circuits only. PA and PB Plunger for momentary circuits only
- Hardware includes (1) 2M1-HDW4 nut and (1) 3MNH-WCP-0872 o-ring
- BJ Bushing only available with PJ Plunger
- BL Bushing only available with PA or PB Plunger
- Movable contact & terminal platings: silver over copper alloy
- Movable Contact platings: gold over nickel over copper alloy
- Terminal platings: gold over nickel over copper alloy

3MS - **WSP** **7** - **P1** - **B1** - **M6** **Q** **E**

1 Series 2 Pole 3 Circuit 4 Actuator Style 5 Bushing 6 Termination 7 Contacts 8 Seal

1 SERIES**3MS** Sealed Snap-Action Miniature Pushbutton Switch**2 POLES****WSP** Single pole - uses terminals 1, 2 & 3**WDP** Double pole - uses terminals 1, 2, 3, 4, 5 & 6**3 CIRCUIT**

() - momentary

Switching Position:	1	2
7	2-3, 5-6 ON	2-1, 5-4 (ON)

Note: Plunger at rest in Position 1. Plunger depressed in Position 2.

4 ACTUATOR STYLE**P1** Standard Plunger**P2** Long Plunger**P3** Short Plunger**5 BUSHING****B1**¹ Threaded, with keyway, .350 height [8.89 mm]**B4** Unthreaded, flattened, .250 height [6.35 mm]**6 TERMINATION****M1** Solder Lug**M2** PCB**M6** PC Mount, 90° horizontal**M61** Snap-In, 90° horizontal**M7** PC Mount, 90° vertical**M71** Snap-In, 90° vertical**VS2** PC Mount, U bracket, .620" mounting x .461" height**VS21** Snap-In, U bracket, .620" mounting x .461" height**VS3** PC Mount, U bracket, .620" mounting x .630" height**VS31** Snap-In, vertical, .630" height**VS4** PC Mount, U bracket, .750" mounting x .461" height**VS41** Snap-In, vertical, .461 height**VS5** PC Mount, U bracket, .750" mounting x .630" height**VS51** Snap-In, vertical, .630" height**7 CONTACTS / TERMINALS**

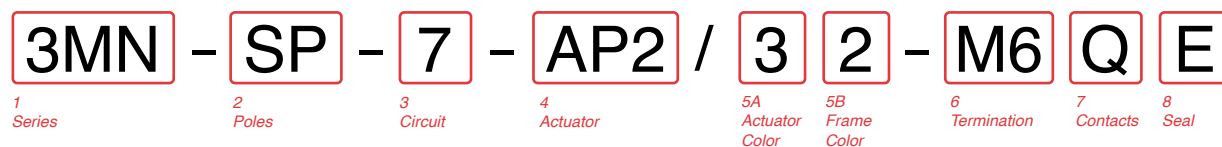
	Contact Material	Terminal Plating	Rating	Approvals
G	silver ³	gold over silver	1A 120VAC or 38VDC	c  us, IP68
Q	silver ³	silver ³	1A 120VAC or 38VDC	c  us, IP68
R	gold ²	gold ²	0.4VA max 20V max (AC/DC)	IP68

8 EPOXY SEAL**E** Epoxy Seal**0** without Epoxy Seal

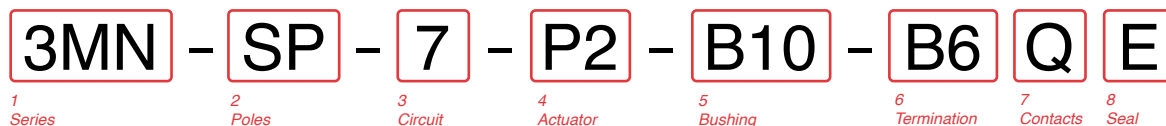
Notes:

- Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDW11 washer, and (1) 2M1-HDW15 locking ring
- Movable contact and terminal platings: gold over nickel over copper alloy
- Movable contact and terminal platings: silver over copper alloy

3MN-Series with Square Actuator



3MN-Series with Plunger Actuator



1 SERIES

3MN Snap-Action Miniature Pushbutton Switch

2 POLES

SP Single pole - uses terminals 1, 2 & 3
DP Double pole - uses terminals 1, 2, 3, 4, 5 & 6

3 CIRCUIT

() - momentary

Switching Position:

1	2
2-3, 5-6	2-1, 5-4
ON	(ON)

Note: Plunger at rest in Position 1. Plunger depressed in Position 2.

4 ACTUATOR

Square Actuator (use with Color Options in Selection 5A & 5B)

AP1 Square with no frame
AP2 Square raised above frame
AP3 Square flush with frame

Plunger Actuator (use with Bushing Options in Selection 5)

P0 Flush Plunger
P1 Standard Plunger
P2 Short Plunger

5A ACTUATOR COLOR & 5B FRAME COLOR ^{3,4}

1 White
2 Black
3 Red

OR

5B BUSHING

B6 Unthreaded (for terminations VS6-VS9 only)
B10 ¹ Threaded keyway
B11 ² Threaded with flat
B20 Unthreaded keyway
B21 Unthreaded with flat

6 TERMINATION

M1 Solder Lug
M2 PCB
M51 Wire Wrap .750 [19.05]
M52 Wire Wrap .964 [24.40]
M53 Wire Wrap .425 [10.80]
M6 PC Mount, 90° horizontal
M7 PC Mount, 90° vertical
VS2 PC Mount, U bracket, .620" mounting x .461" height
VS3 PC Mount, U bracket, .620" mounting x .630" height
VS4 PC Mount, U bracket, .750" mounting x .461 height
VS5 PC Mount, U bracket, .750" mounting x .630" height
VS6 PC Mount, U bracket, .461 height (for B6 bushing only)
VS7 PC Mount, U bracket, .630 height (for B6 bushing only)
VS8 PC Mount, U bracket, .461 height (for B6 bushing only)
VS9 PC Mount, U bracket, .630 height (for B6 bushing only)

7 CONTACTS / TERMINALS

	Contact Material	Terminal Plating	Rating	Approvals
G	silver	gold over silver	1A 125VAC or 28VDC	 
Q	silver ⁵	silver ⁵	1A 125VAC or 28VDC	
R	gold ⁶	gold ⁶	0.4VA max 20V max (AC/DC)	

8 EPOXY SEAL

E Epoxy Seal **0** without Epoxy Seal

Notes:

- Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDW11 washer, and (1) 2M1-HDW15 locking ring
- Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDW11 washer, and (1) 2M1-HDW16 locking ring
- Selection 5B is blank if actuator style is AP1 (no frame)
- Black, white and red are standard. Other colors available, consult factory for details.
- Movable contact & terminal platings: silver over copper alloy
- Movable contact & terminal platings: gold over nickel over copper alloy

3MA-Series with Square Actuator



3MA-Series with Plunger Actuator



1 SERIES

3MA Alternate Action Miniature Pushbutton Switch

2 POLES

SP Single pole - uses terminals 1, 2 & 3
DP Double pole uses terminals 1, 2, 3, 4, 5 & 6
3P¹ Three pole uses terminals 1, 2, 3, 4, 5, 6, 7, 8 & 9
4P¹ Four pole uses terminals 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12

3 CIRCUIT

() - momentary

Switching 1

Position: 2-3, 5-6, 8-9, 11-12 Connected Terminals 2-1, 5-4, 8-7, 11-10
1 ON NONE ON
2* ON NONE (ON)

*Available in SP & DP only.

4 ACTUATOR

Square Actuator (use with Color Options in Selection 5A & 5B)

AP1 Square with no frame

AP2 Square raised above frame

Plunger Actuator (use with Bushing Options in Selection 5)

PA Standard Plunger

PI Medium Plunger

PL Brass Chrome Plunger

PC Brass Chrome Plated Plunger with Cap (for BD bushing only)

PD Brass Chrome Plated Plunger (for BD bushing only)

5A ACTUATOR COLOR & 5B FRAME COLOR 4,5

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

OR

5 BUSHING

BD¹ Big bushing for PC, PD actuator 15/32"

B10² Threaded 1/4 - 40

B20 Unthreaded

B21 Unthreaded with flat

6 TERMINATION

M1 Solder Lug

M2 PCB

M51 Wire Wrap .750

M52 Wire Wrap .964

M53 Wire Wrap .425

M54 Wire Wrap 1.062

M6 PC Mount, 90° horizontal

M7 PC Mount, 90° vertical

VS2 PC Mount, U bracket, .620" mounting x .461" height

VS3 PC Mount, U bracket, .620" mounting x .630" height

VS4 PC Mount, U bracket, .750" mounting x .461" height

VS5 PC Mount, U bracket, .750" mounting x .630" height

7 CONTACTS / TERMINALS

	Contact	Material	Terminal Plating	Rating	Approvals
G	silver ⁶	gold over silver	6A 125VAC or 28VDC 3A 250VAC		c  us
K	gold ⁷	tin ⁸	0.4VA max 20V max (AC/DC)		N/A
P	silver ⁶	gold over silver	6A 125VAC or 28VDC 3A 250VAC		c  us
Q	silver ⁶	silver ⁶	6A 125VAC or 28VDC 3A 250VAC		c  us
R	gold ⁷	gold ⁷	0.4VA max 20V max (AC/DC)		N/A

8 EPOXY SEAL

E Epoxy Seal 0 without Epoxy Seal

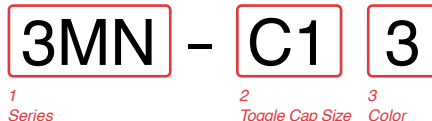
Notes:

- Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDW12 washer, and (1) 2M1-HDW17 locking ring
- Hardware includes (2) 2M1-HDW2 nuts, (1) 2M1-HDW11 washer, and (1) 2M1-HDW15 locking ring
- Tin option available with PC type terminations only.
- Available with circuit 1 only
- Black, white and red are standard. Other colors available, consult factory for details.
- Selection 5B is blank if actuator style is AP1 (no frame)
- Movable contact & terminal platings: silver over copper alloy
- Movable contact & terminal platings: gold over nickel over copper alloy
- Terminal platings: tin over nickel over copper alloy, available for PC mount terminations only

3M-Series Accessories

To order a cap assembled on a switch, specify the switch number followed by the cap part number and the word "assembled". Ex: 3MN-SP-7-P2-B6-M6QE-C13ASSEMBLED. To order caps in bulk, specify the Series, followed by the cap. Ex: 3MN-C13

Optional Cap



1 SERIES

3MN Fits 3MN, 3MS or 3MA

2 PUSHBUTTON CAP SIZE

C1 Round 8 mm diameter
C2 Round 9.70 mm diameter
C3 Square 11.7 x 11.7 mm
C4 Round 5 mm diameter

C5¹ Round 15 mm diameter
C6² Brass Chrome Plated, 3.15 mm diameter

3 CAP COLOR

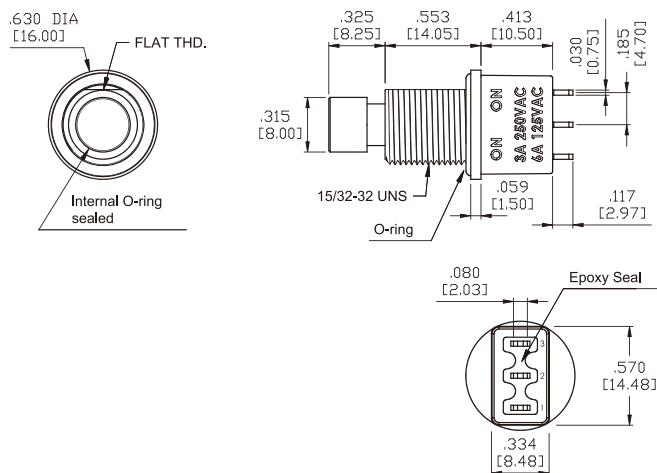
1 White	4 Orange
2 Black	5 Yellow
3 Red	6 Green
	7 Blue

Notes:

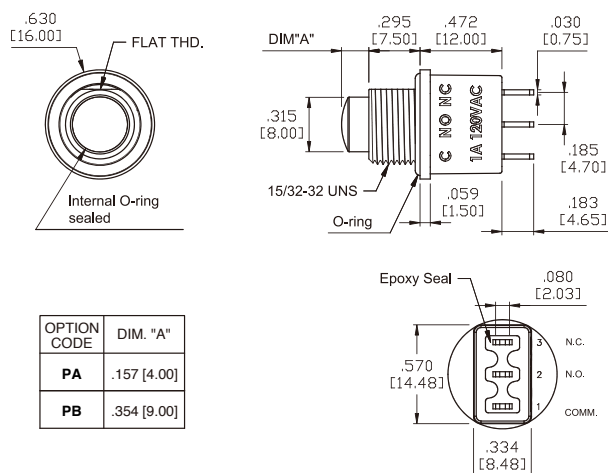
- For 3MA with PL Bushing
- For 3MA with PD Bushing

3MNH-Series Dimensional Specifications: in. [mm]

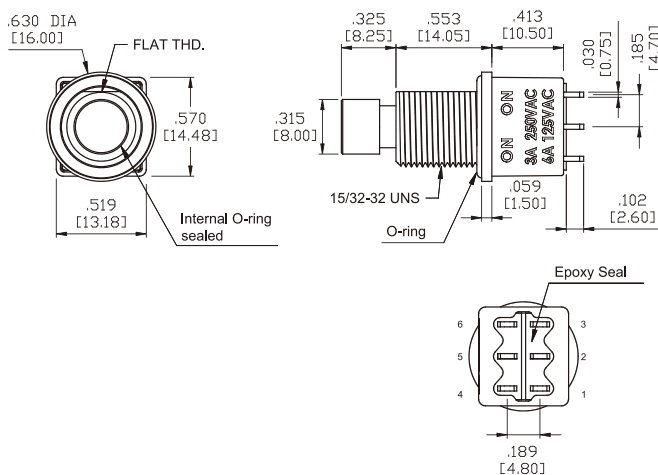
Single Pole Maintained Circuit



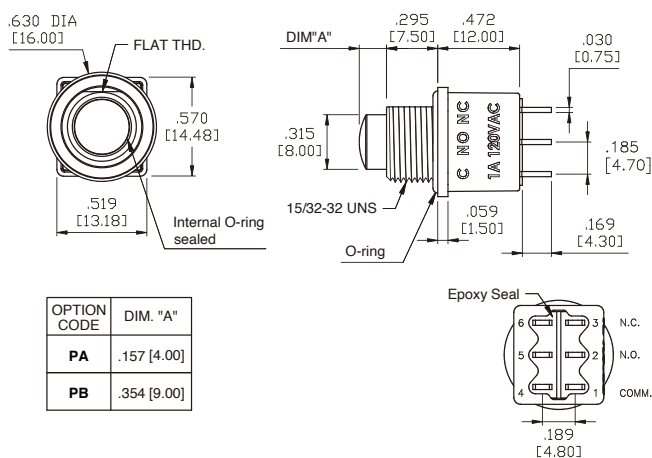
Single Pole Momentary Circuit



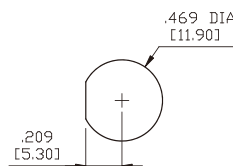
Double Pole Maintained Circuit



Double Pole Momentary Circuit

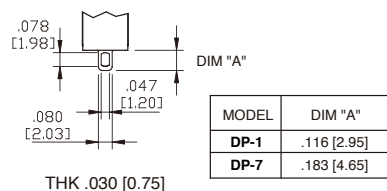


Panel Mounting



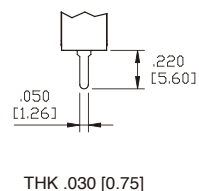
15/32-32 UNS FLAT-CUT THREADED BUSHING

M1 Standard Solder Lug

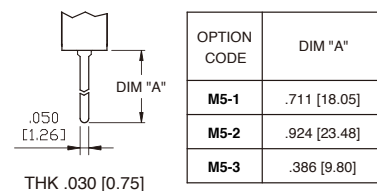


Termination Options

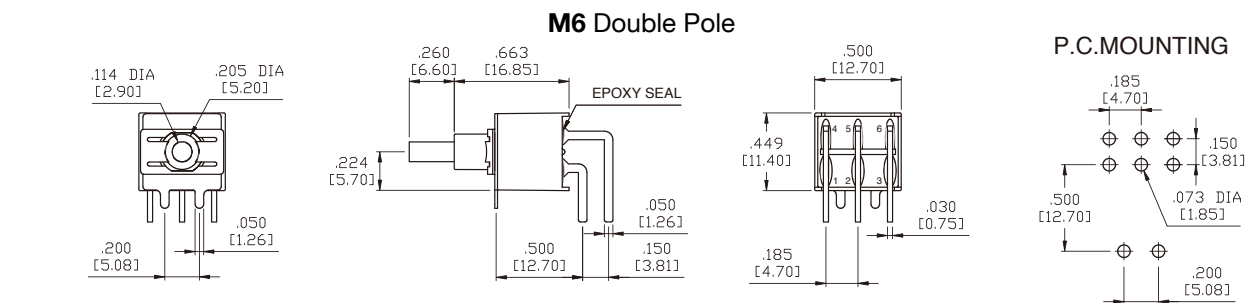
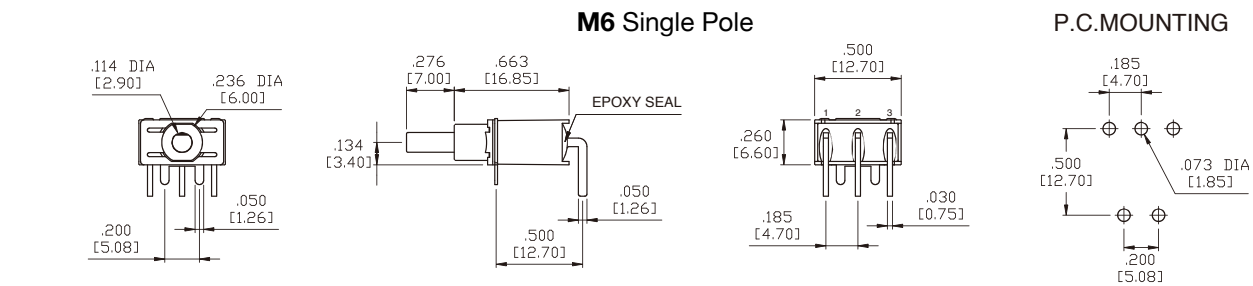
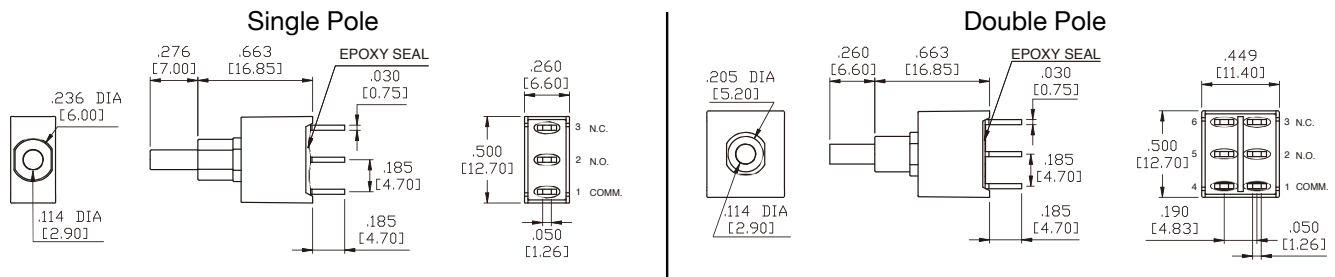
M2 PC Thru-Hole



M5 Wire Wrap

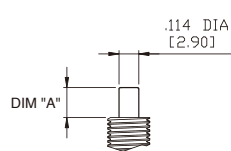


3MS-Series Dimensional Specifications: in. [mm]



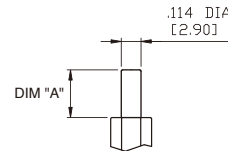
Plunger Options

For B1 Bushing



OPTION CODE	DIM. "A"
P1	.181 [4.60]
P2	.228 [5.80]
P3	.087 [2.20]

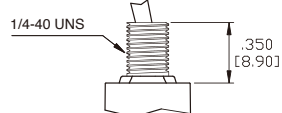
For B4 Bushing



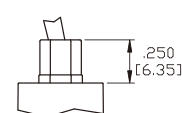
OPTION CODE	DIM. "A"
P1	.276 [7.00]
P2	.323 [8.20]
P3	.181 [4.60]

Bushing Options

B1

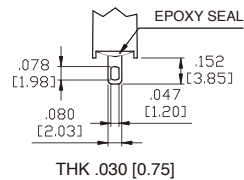
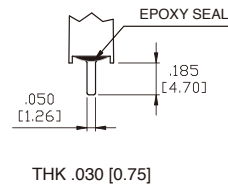


B4

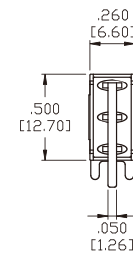
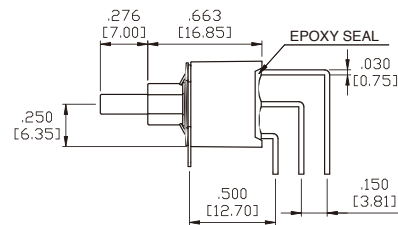
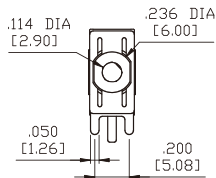


3MS-Series Dimensional Specifications: in. [mm]

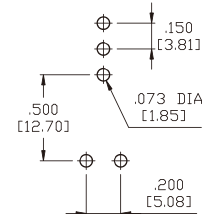
Termination Options

M1

M2


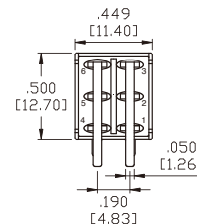
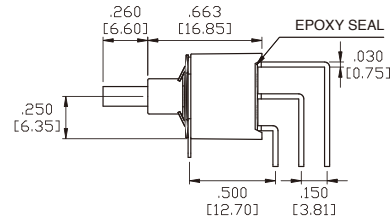
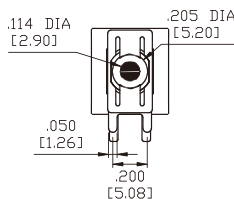
M7 Single Pole



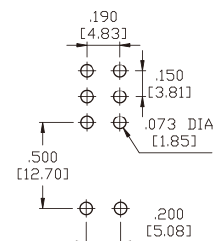
P.C.MOUNTING



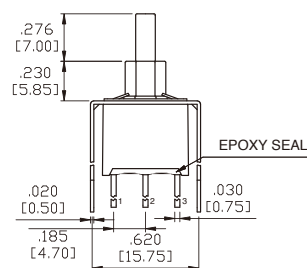
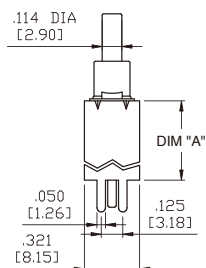
M7 Double Pole



P.C.MOUNTING

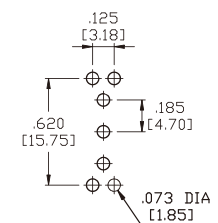


VS2-VS3 Single Pole

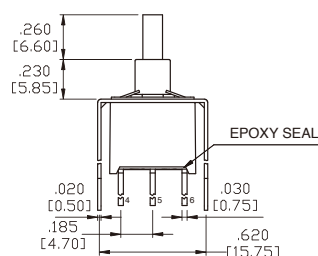
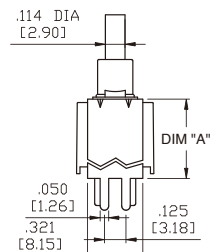


OPTION CODE	DIM. 'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

P.C.MOUNTING

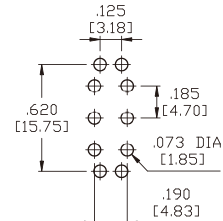


VS2-VS3 Double Pole



OPTION CODE	DIM. 'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

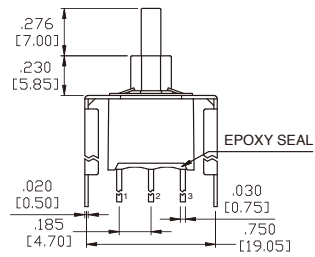
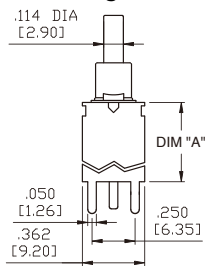
P.C.MOUNTING



3MS-Series Dimensional Specifications: in. [mm]

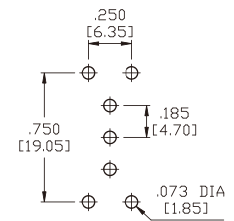
Termination Options

VS4-VS5 Single Pole

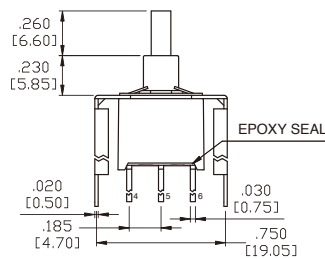
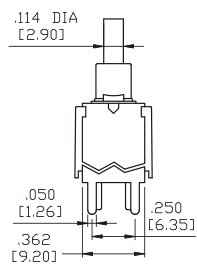


OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING

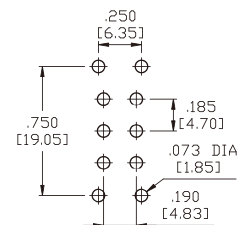


VS4-VS5 Double Pole



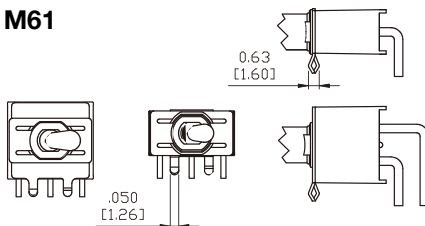
OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING

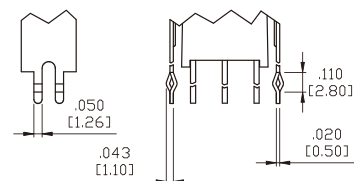


Snap-In Termination Options

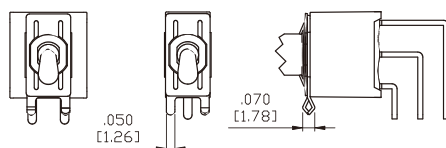
M61



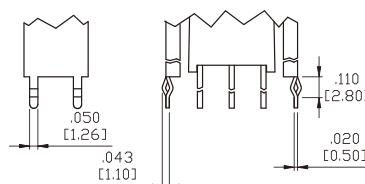
VS21, VS31



M71

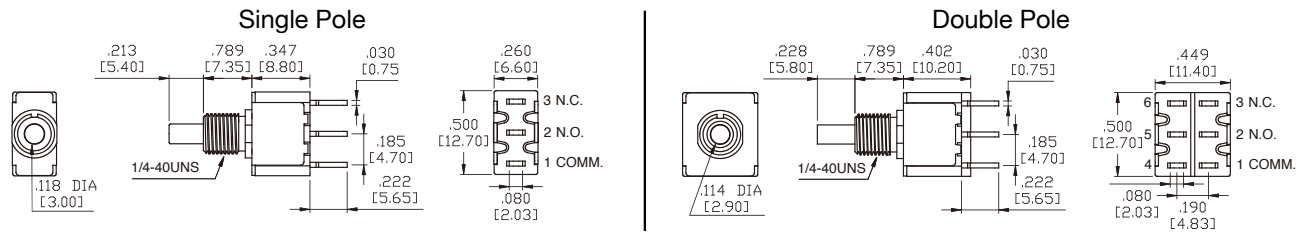


VS41, VS51



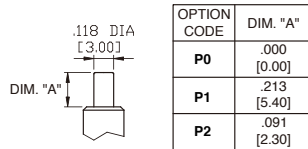
* PC Mounting for M61, M71, VS21, VS31, VS41, VS51 refer to M6, M7, VS2, VS3, VS4, VS5 respectively.

3MN-Series Dimensional Specifications: in. [mm]

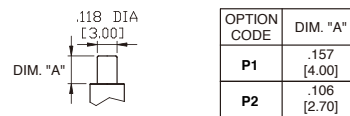


Plunger Options

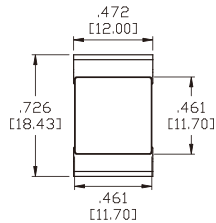
For **B1, B2, B3, B4** Bushing



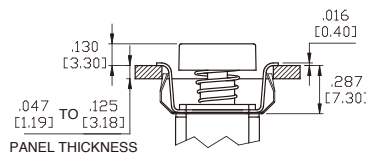
For **B6** Bushing



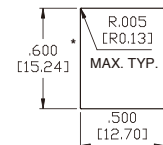
AP1



Actuator Options for Snap-In Front Mount

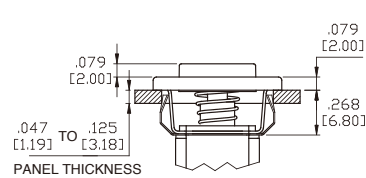
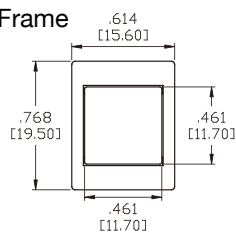


PANEL MOUNTING

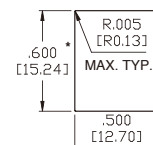


* Increase this dimension to .620/.625 [15.75/15.88] for .091/.125 [2.31/3.18] thk. panels.

AP2 with Frame

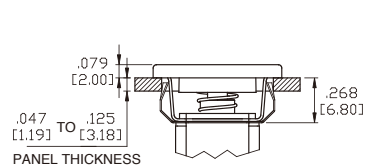
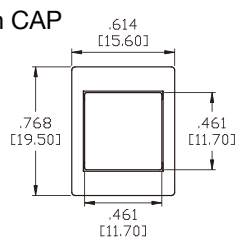


PANEL MOUNTING

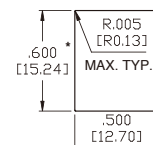


* Increase this dimension to .620/.625 [15.75/15.88] for .091/.125 [2.31/3.18] thk. panels.

AP3 Flush CAP



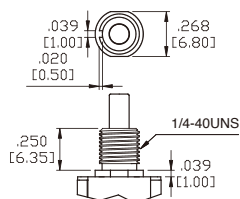
PANEL MOUNTING



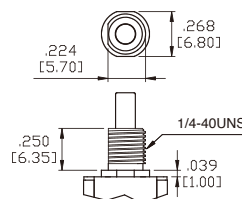
* Increase this dimension to .620/.625 [15.75/15.88] for .091/.125 [2.31/3.18] thk. panels.

Bushing Options

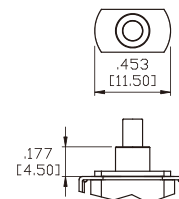
B1 Threaded Standard
B2 Non-Threaded



B3 Threaded Standard
B4 Non-Threaded



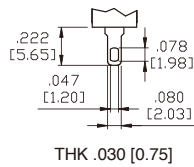
B6 Non-Threaded
(FOR TERMINATION OPTIONS VS6-VS9 ONLY)



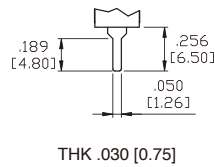
3MN-Series Dimensional Specifications: in. [mm]

Termination Options

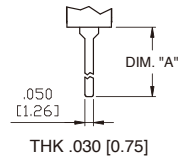
M1 Standard Solder Lug



M2 PC Thru-Hole

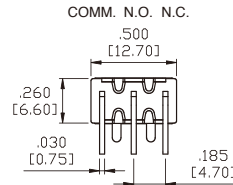
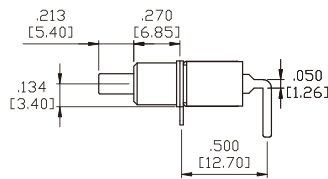
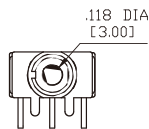


M5 Wire Wrape

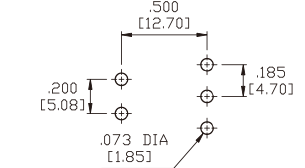


OPTION CODE	DIM. "A"
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]

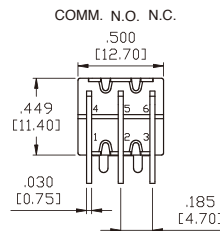
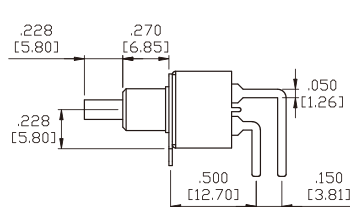
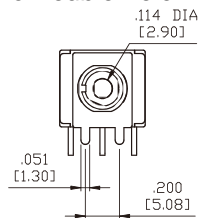
M6 Single Pole



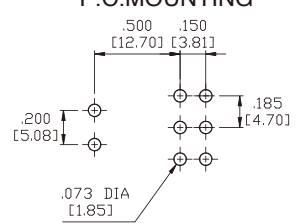
P.C.MOUNTING



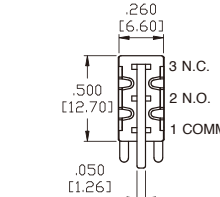
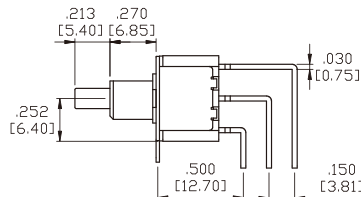
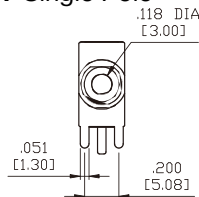
M6 Double Pole



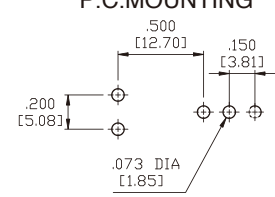
P.C.MOUNTING



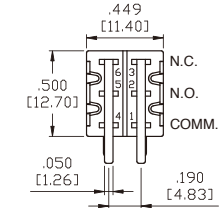
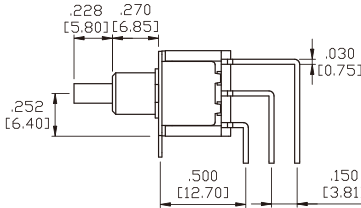
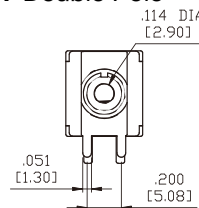
M7 Single Pole



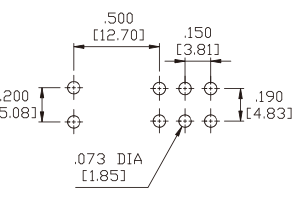
P.C.MOUNTING



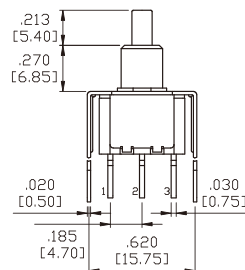
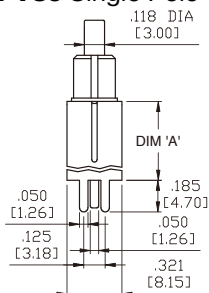
M7 Double Pole



P.C.MOUNTING

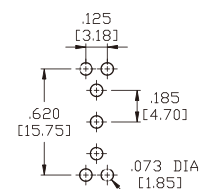


VS2-VS3 Single Pole



OPTION CODE	DIM. "A"
VS2	.461 [11.70]
VS3	.630 [16.00]

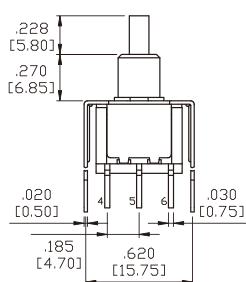
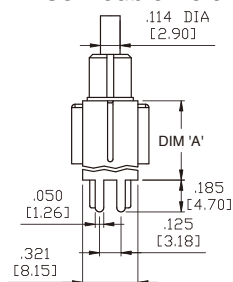
P.C.MOUNTING



3MN-Series Dimensional Specifications: in. [mm]

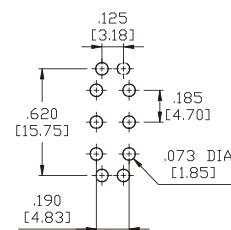
Termination Options

VS2-VS3 Double Pole

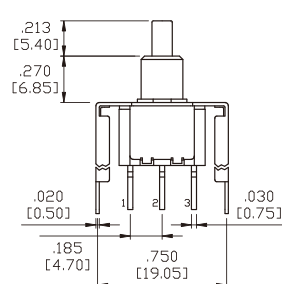
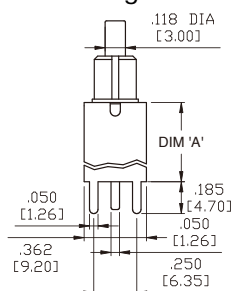


OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

P.C.MOUNTING

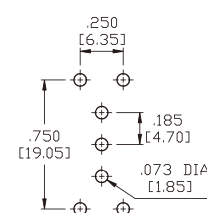


VS4-VS5 Single Pole

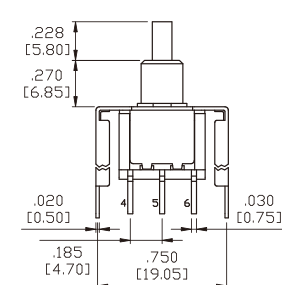
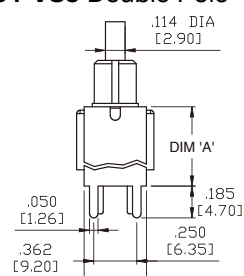


OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING

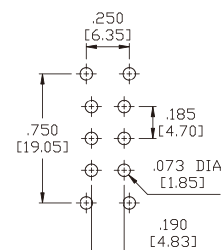


VS4-VS5 Double Pole



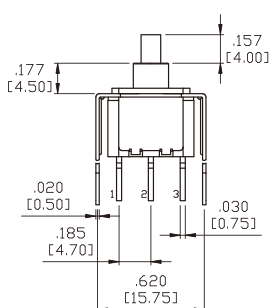
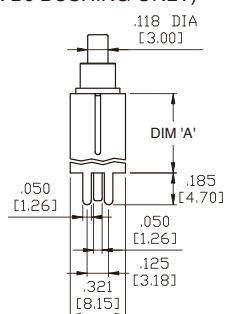
OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING



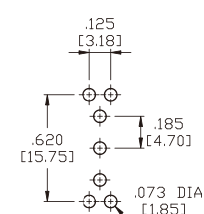
VS6-VS7 Single Pole

(FOR B6 BUSHING ONLY)



OPTION CODE	DIM.'A'
VS6	.461 [11.70]
VS7	.630 [16.00]

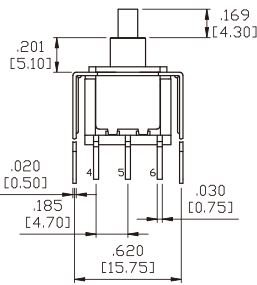
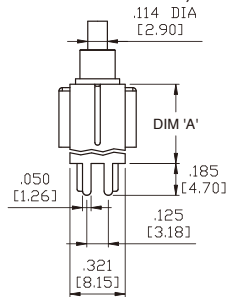
P.C.MOUNTING



3MN-Series Dimensional Specifications: in. [mm]

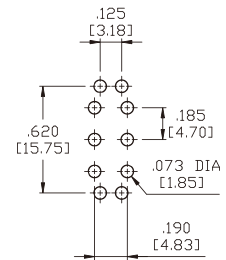
Termination Options

VS6-VS7 Double Pole (FOR B6 BUSHING ONLY)

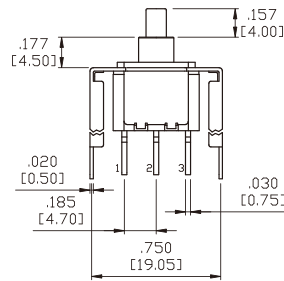
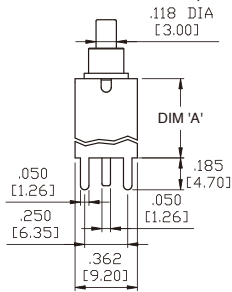


OPTION CODE	DIM.'A'
VS6	.461 [11.70]
VS7	.630 [16.00]

P.C.MOUNTING

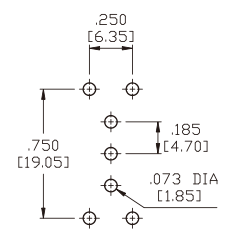


VS8-VS9 Single Pole (FOR B6 BUSHING ONLY)

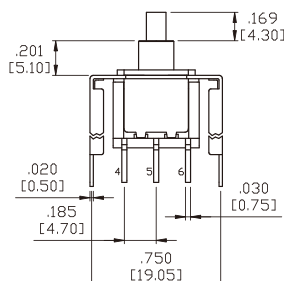
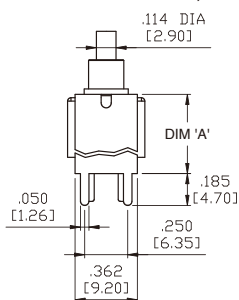


OPTION CODE	DIM.'A'
VS8	.461 [11.70]
VS9	.630 [16.00]

P.C.MOUNTING

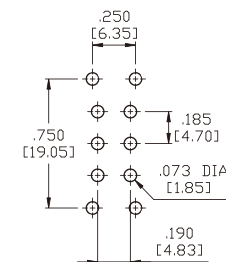


VS8-VS9 Double Pole (FOR B6 BUSHING ONLY)



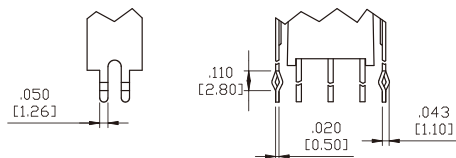
OPTION CODE	DIM.'A'
VS8	.461 [11.70]
VS9	.630 [16.00]

P.C.MOUNTING

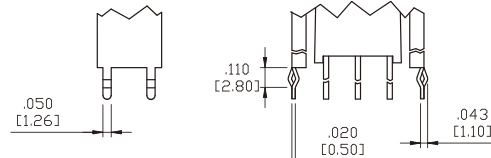


Snap-In Termination Options

VS21, VS31

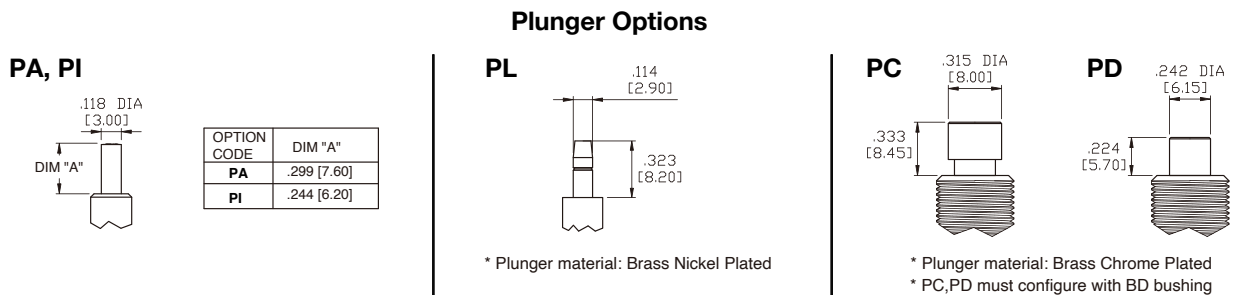
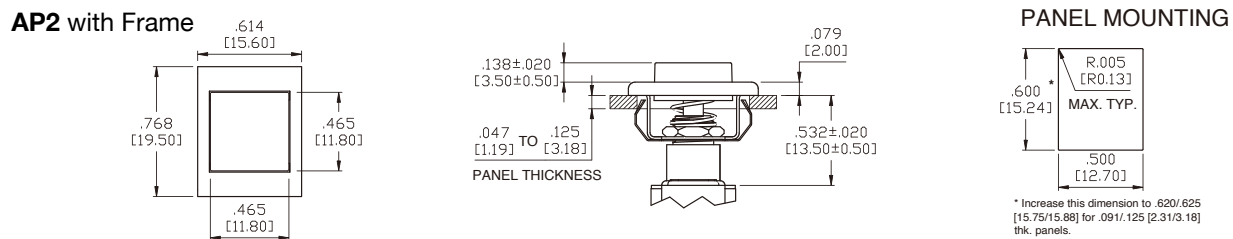
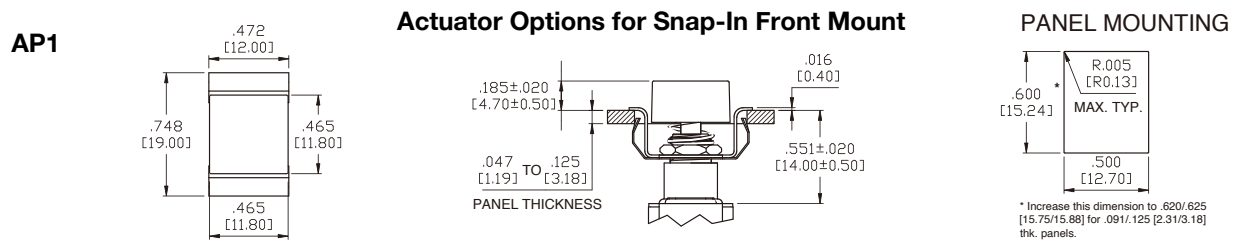
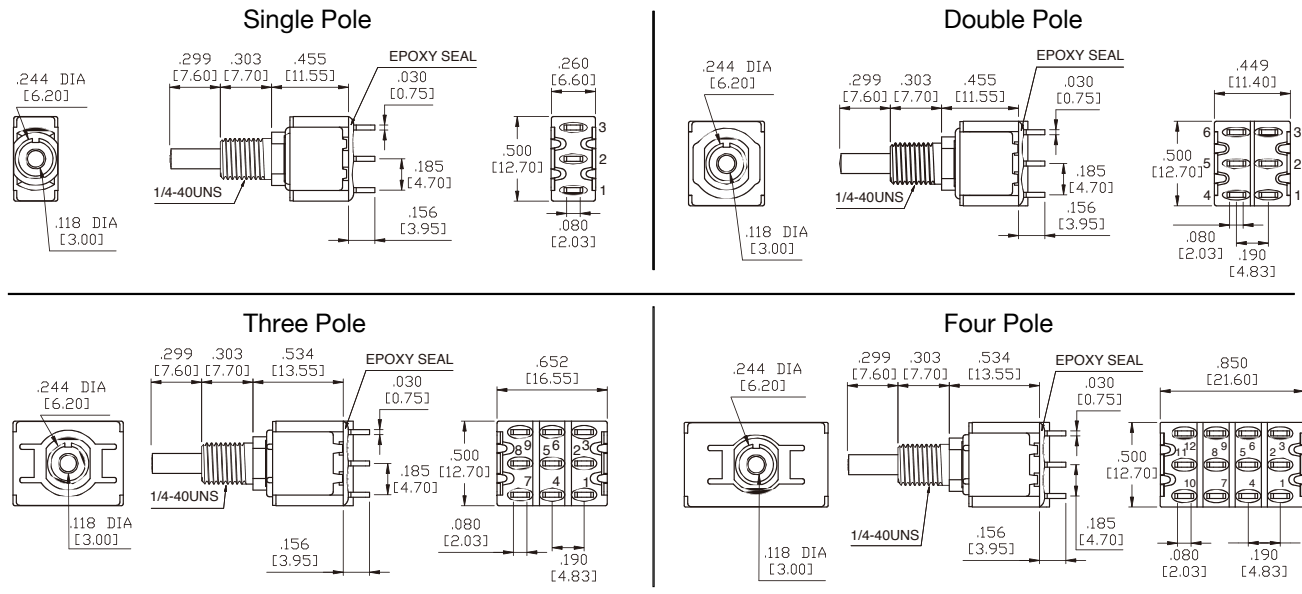


VS41, VS51



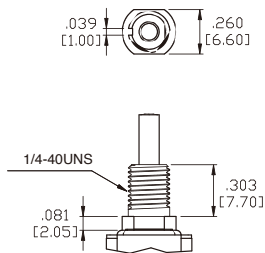
* PC Mounting for VS21, VS31, VS41, VS51 refer to VS2, VS3, VS4, VS5 respectively.

3MA-Series Dimensional Specifications: in. [mm]

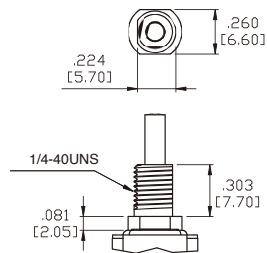


3MA-Series Dimensional Specifications: in. [mm]

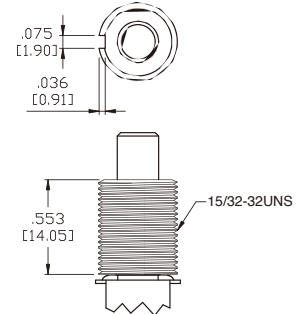
B10 Threaded Standard B20 Non-Threaded



Bushing Options B21 Non-Threaded

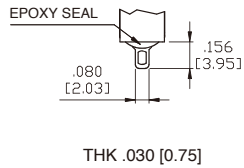


BD Threaded Standard

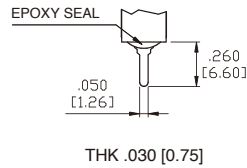


Termination Options

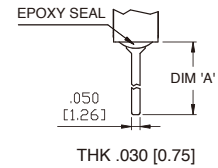
M1 Standard Solder Lug



M2 PC Thru-Hole

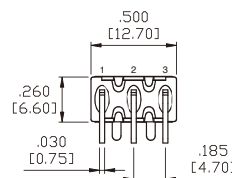
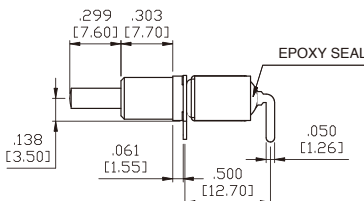
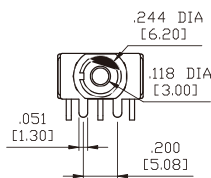


M5 Wire Wrape

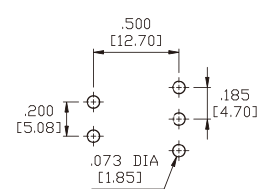


OPTION CODE	DIM. 'A'
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

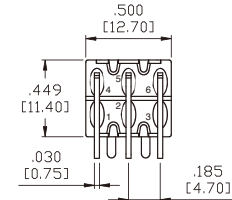
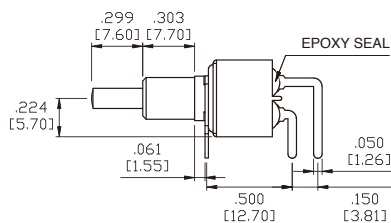
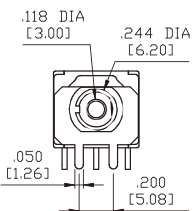
M6 Single Pole



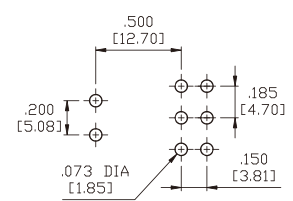
P.C.MOUNTING



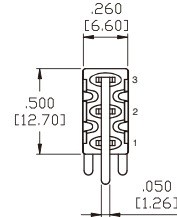
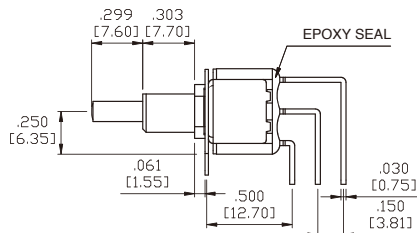
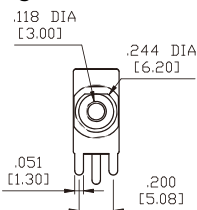
M6 Double Pole



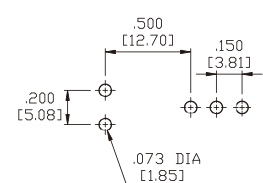
P.C.MOUNTING



M7 Single Pole



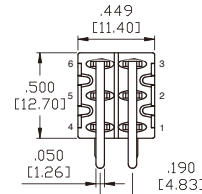
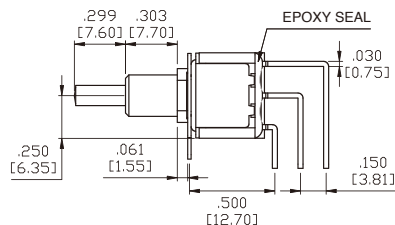
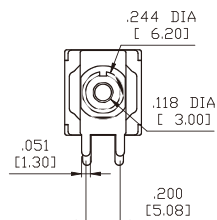
P.C.MOUNTING



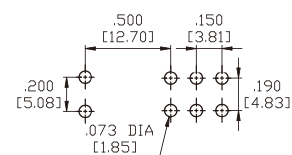
3MA-Series Dimensional Specifications: in. [mm]

Termination Options

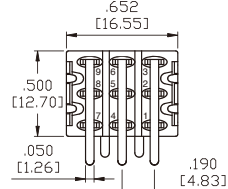
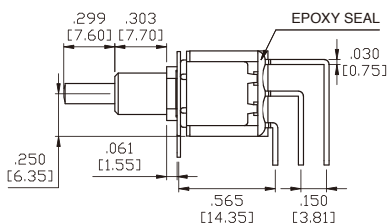
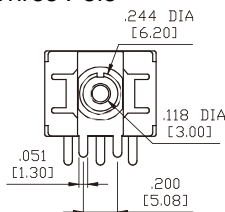
M7 Double Pole



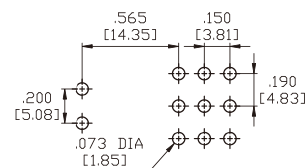
P.C.MOUNTING



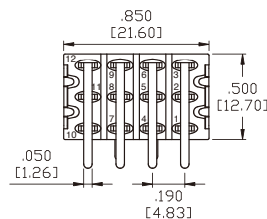
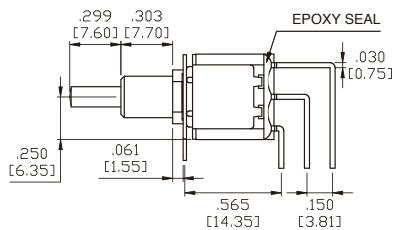
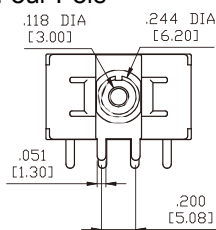
M7 Three Pole



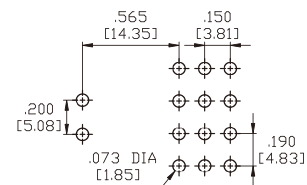
P.C.MOUNTING



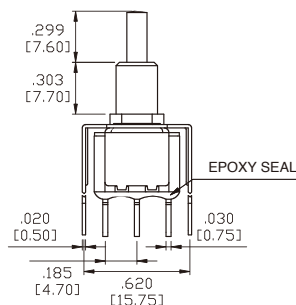
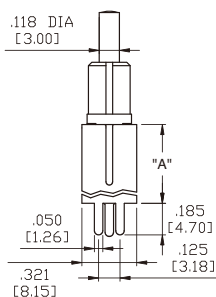
M7 Four Pole



P.C.MOUNTING

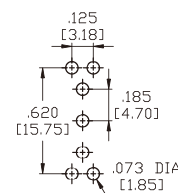


VS2-VS3 Single Pole

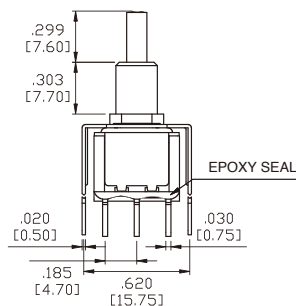
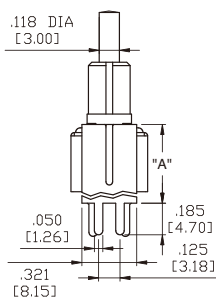


OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

P.C.MOUNTING

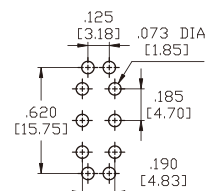


VS2-VS3 Double Pole



OPTION CODE	DIM.'A'
VS2	.461 [11.70]
VS3	.630 [16.00]

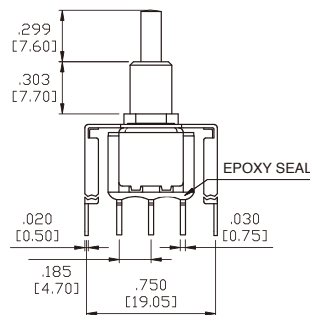
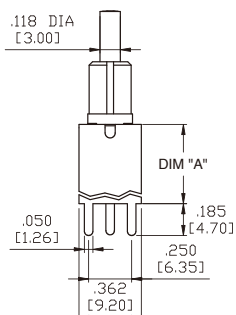
P.C.MOUNTING



3MA-Series Dimensional Specifications: in. [mm]

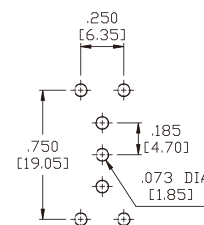
Termination Options

VS4-VS5 Single Pole

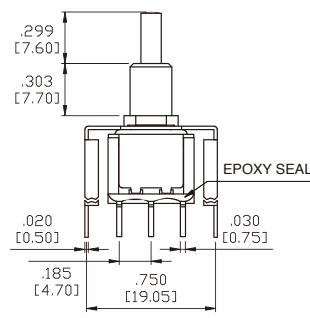
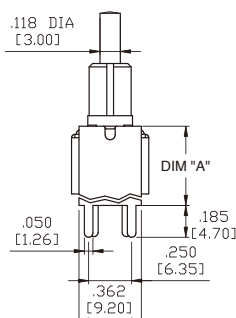


OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

P.C.MOUNTING

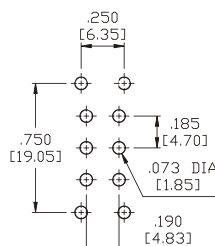


VS4-VS5 Double Pole



OPTION CODE	DIM.'A'
VS4	.461 [11.70]
VS5	.630 [16.00]

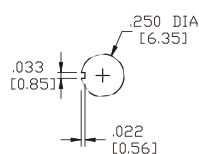
P.C.MOUNTING



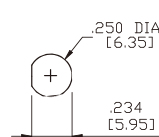
Panel Mounting

1/4 INCH BUSHING

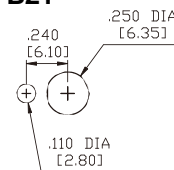
B10



B20

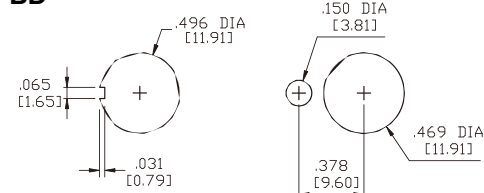


B21



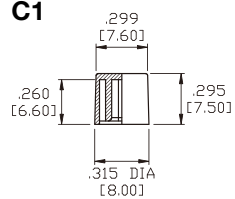
15/32 INCH BUSHING

BD

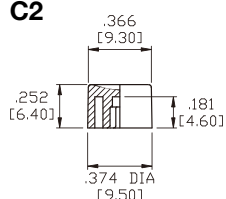


Plunger Caps

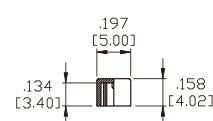
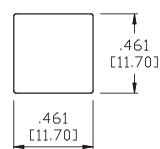
C1



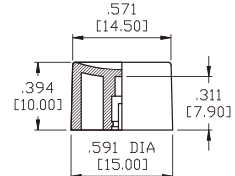
C2



C3

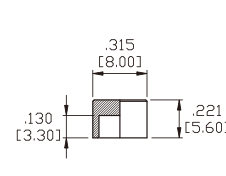


C5



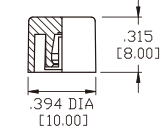
For PL plunger only

C6



For PD plunger only

C7



For PL plunger only

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

MATERIAL: ABS for C1~C5, C7
MATERIAL: Chrome plated brass for C6

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Founded in 1920, Carling Technologies is a leading manufacturer of electrical and electronic switches and assemblies, circuit breakers, electronic controls, power distribution units, and multiplexed power distribution systems. With four ISO9001 and IATF16949 registered manufacturing facilities and technical sales offices worldwide, Carling Technologies Sales, Service and Engineering teams do much more than manufacture electrical components, they engineer powerful solutions! To learn more about Carling please visit www.carlingtech.com/company-profile.

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