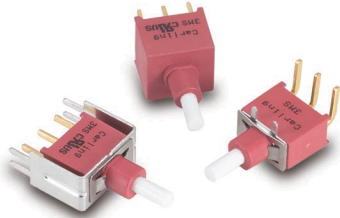
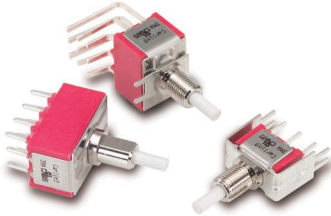




**3MN-Series**  
**Snap-Action** Miniature Pushbutton Switch



**3MS-Series**  
**Sealed Snap-Action** Miniature Pushbutton Switch



**3MA-Series**  
**Alternate Action** Miniature Pushbutton Switch

### Specifications

Contact Rating . . . . .	refer to ordering scheme
Electrical Life . . . . .	50,000 make & break cycles @ full load
Contact Resistance. . . . .	<b>3MN &amp; 3MA-Series:</b> 10 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts. <b>3MS-Series:</b> 50 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
Index of Protection . . . . .	<b>3MS -Series:</b> IP68
Cap Installation Support . .	<b>3MS-Series:</b> 10 lbs. max.
Solder Heat Resistance. . .	MIL-STD-202, Method 210
Actuator Travel . . . . .	.25°

### Materials

Case . . . . .	<b>3MN &amp; 3MA-Series:</b> Diallyl phthalate (DAP) (UL 94V-0) <b>3MS-Series:</b> Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-0)
Plunger. . . . .	<b>3MN-Series:</b> Thermoplastic polyester, black <b>3MS &amp; 3MA-Series:</b> Glass filled nylon or glass filled polyester (UL 94V-0)
Bushing . . . . .	<b>3MN-Series:</b> Brass, nickel plated <b>3MA-Series:</b> Zinc, nickel plated
Housing. . . . .	<b>3MN &amp; 3MA-Series:</b> Stainless Steel
Switch Support Retainer . .	<b>3MS-Series:</b> Stainless Steel
Terminal Seal . . . . .	Epoxy

### 3M-Series Optional Cap

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



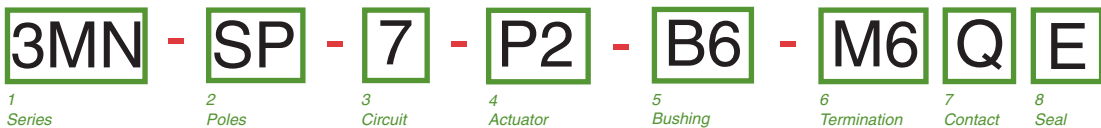
<p><b>1 SERIES OR SWITCH CATALOG NUMBER</b> 3MN, 3MS or 3MA</p>	<p><b>3 CAP COLOR</b></p> <table border="0" style="width: 100%;"> <tr> <td>1 white</td> <td>5 yellow</td> </tr> <tr> <td>2 black</td> <td>6 green</td> </tr> <tr> <td>3 red</td> <td>7 blue</td> </tr> <tr> <td>4 orange</td> <td></td> </tr> </table> <p><small>1 Black, white &amp; red standard. Other colors available. Consult factory.</small></p>	1 white	5 yellow	2 black	6 green	3 red	7 blue	4 orange	
1 white	5 yellow								
2 black	6 green								
3 red	7 blue								
4 orange									
<p><b>2 CAP SIZE</b></p> <table border="0" style="width: 100%;"> <tr> <td><b>C1</b> round 7.6mm dia.</td> <td><b>C5</b> round 14.5mm dia.</td> </tr> <tr> <td><b>C2</b> round 9.35 mm dia.</td> <td>(for 3MA w/ PL bushing)</td> </tr> <tr> <td><b>C3</b> square 11.7 x 11.7mm</td> <td><b>C6</b> brass chrome plated</td> </tr> <tr> <td><b>C4</b> round 5mm dia.</td> <td>(for 3MA w/ PD bushing)</td> </tr> </table>	<b>C1</b> round 7.6mm dia.	<b>C5</b> round 14.5mm dia.	<b>C2</b> round 9.35 mm dia.	(for 3MA w/ PL bushing)	<b>C3</b> square 11.7 x 11.7mm	<b>C6</b> brass chrome plated	<b>C4</b> round 5mm dia.	(for 3MA w/ PD bushing)	
<b>C1</b> round 7.6mm dia.	<b>C5</b> round 14.5mm dia.								
<b>C2</b> round 9.35 mm dia.	(for 3MA w/ PL bushing)								
<b>C3</b> square 11.7 x 11.7mm	<b>C6</b> brass chrome plated								
<b>C4</b> round 5mm dia.	(for 3MA w/ PD bushing)								

### 3MN-Series Ordering Scheme

#### with Square Actuator



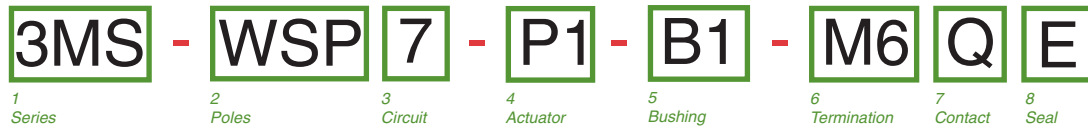
#### with Plunger Actuator



<p><b>1 SERIES</b> 3MN Snap-Action Miniature Pushbutton Switch</p>									
<p><b>2 POLES</b> SP single pole <span style="float: right;">DP double pole</span></p>									
<p><b>3 CIRCUIT</b> ( ) - momentary  7 ON (ON)</p>									
<p><b>4 ACTUATOR<sup>1</sup></b>  <b>SQUARE ACTUATOR</b> (use with Color Options in Selection 5A &amp; 5B.)            AP1 square with no frame            AP2 square raised above frame            AP3 square flush with frame   <b>PLUNGER ACTUATOR</b> (use with Bushing Options in Selection 5)            P0 2.5mm short plunger(for B6 bushing only)            P1 5.2mm plunger(for bushing B10,B11,B20,B21; 7.5mm for B6)            P2 2.0mm plunger(for bushing B10,B11,B20,B21; 4.2mm for B6)</p>									
<p><b>5A ACTUATOR COLOR &amp; 5B FRAME COLOR<sup>1,2</sup></b></p> <table style="width: 100%; border: none;"> <tr> <td style="border: none;">1 white</td> <td style="border: none;">4 orange</td> <td style="border: none;">7 blue</td> </tr> <tr> <td style="border: none;">2 black</td> <td style="border: none;">5 yellow</td> <td style="border: none;">8 brown</td> </tr> <tr> <td style="border: none;">3 red</td> <td style="border: none;">6 green</td> <td style="border: none;">9 gray</td> </tr> </table> <p>1 Black, white and red are standard. Other colors available, consult factory for details.            2 Selection 5B is blank if actuator style is AP1 (no frame)</p> <p style="text-align: center; font-weight: bold; margin-top: 10px;">OR</p> <p><b>5 BUSHING</b></p> <p>B6 Unthreaded (for terminations VS6-VS9 only)            B10 Threaded keyway            B11 Threaded with flat            B20 Unthreaded keyway            B21 Unthreaded with flat</p> <p>NOTE:            If ordering optional CAP with bushings B10, B11, B20 or B21, specify actuator P1.            For CAP with bushing B6, specify actuator P2.            For CAP options, see ordering scheme on page 35.</p>	1 white	4 orange	7 blue	2 black	5 yellow	8 brown	3 red	6 green	9 gray
1 white	4 orange	7 blue							
2 black	5 yellow	8 brown							
3 red	6 green	9 gray							

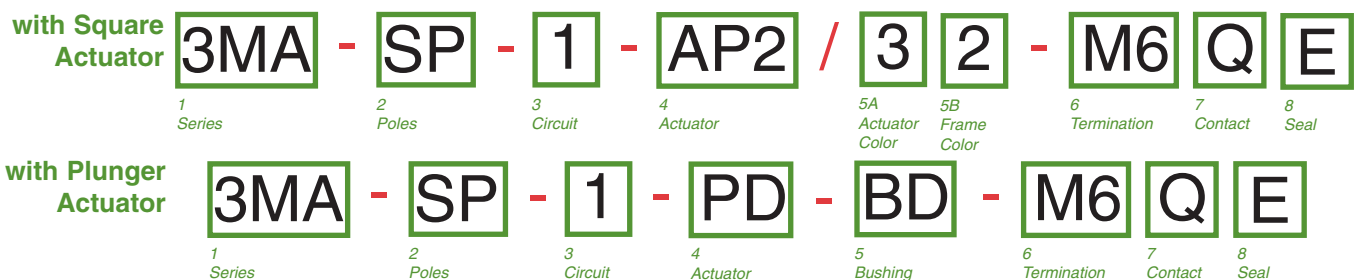
<b>6 TERMINATION</b>				
M1	Solder Lug			
M2	PCB			
M5-1	Wire Wrap .750 [19.05]			
M5-3	Wire Wrap .425 [10.80]			
M6	PC Mount, 90° horizontal			
M7	PC Mount, 90° vertical			
VS2	PC Mount, U bracket, .620 mounting x .460 high			
VS3	PC Mount, U bracket, .620 mounting x .630 high			
VS4	PC Mount, U bracket, .750 mounting x .460 high			
VS5	PC Mount, U bracket, .750 mounting x .630 high			
VS6	PC Mount, U bracket, .460 high (for B6 bushing only)			
VS7	PC Mount, U bracket, .630 high (for B6 bushing only)			
VS8	PC Mount, U bracket, .460 high (for B6 bushing only)			
VS9	PC Mount, U bracket, .630 high (for B6 bushing only)			
<b>7 CONTACT</b>				
G	Material	Terminal Plating	Rating	Approvals
G	silver <sup>1</sup>	gold over silver <sup>3</sup>	1A @ 120VAC or 28VDC	UL, CUL
Q	silver <sup>1</sup>	silver <sup>1</sup>	1A @ 120VAC or 28VDC	UL, CUL
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.				
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				
<b>8 EPOXY SEAL</b>				
E				epoxy seal

#### 3MS-Series Ordering Scheme



<p><b>1 SERIES</b> 3MS Sealed Snap-Action Miniature Pushbutton Switch</p> <hr/> <p><b>2 POLES</b> WSP single pole                                  WDP double pole</p> <hr/> <p><b>3 CIRCUIT</b> ( ) - momentary 7                      ON                                  (ON)</p> <hr/> <p><b>4 ACTUATOR</b> P1                      .173" plunger (for B1 bushing); .276" (for B4 bushing) P2                      .220" plunger (for B1 bushing); .327" (for B4 bushing) P3                      .087" plunger (for B1 bushing); .193" (for B4 bushing)</p> <hr/> <p><b>5 BUSHING</b> B1                      Threaded B4                      Unthreaded</p>	<p><b>6 TERMINATION</b></p> <table style="width: 100%;"> <tr> <td style="width: 50%;"><b>M1</b> Solder Lug</td> <td><b>VS21</b> Snap-In, U bracket, .620 mounting x .460 high</td> </tr> <tr> <td><b>M2</b> PCB</td> <td><b>VS3</b> PC Mount, U bracket, .620 mounting x .630 high</td> </tr> <tr> <td><b>M6</b> PC Mount, 90° horizontal</td> <td><b>VS4</b> PC Mount, U bracket, .750 mounting x .460 high</td> </tr> <tr> <td><b>M61</b> Snap-In, 90° horizontal</td> <td><b>VS5</b> PC Mount, U bracket, .750 mounting x .630 high</td> </tr> <tr> <td><b>M7</b> PC Mount, 90° vertical</td> <td></td> </tr> <tr> <td><b>M71</b> Snap-In, 90° vertical</td> <td></td> </tr> <tr> <td><b>VS2</b> PC Mount, U bracket, .620 mounting x .460 high</td> <td></td> </tr> </table> <hr/> <p><b>7 CONTACT</b></p> <table style="width: 100%;"> <thead> <tr> <th>Material</th> <th>Terminal Plating</th> <th>Rating</th> <th>Approvals</th> </tr> </thead> <tbody> <tr> <td>G silver<sup>1</sup></td> <td>gold over silver<sup>2</sup></td> <td>1A@120VAC or 28VDC</td> <td>UL, CUL IP68</td> </tr> <tr> <td>Q silver<sup>1</sup></td> <td>silver<sup>1</sup></td> <td>1A@120VAC or 28VDC</td> <td>UL, CUL IP68</td> </tr> <tr> <td>R gold<sup>2</sup></td> <td>gold<sup>2</sup></td> <td>0.4VA max. @20V max (AC/DC)</td> <td>IP68</td> </tr> </tbody> </table> <p>NOTE: Tin-lead option available with PC type terminations only. 1 Moveable contact &amp; terminals: copper alloy, silver plate 2 Moveable contact &amp; terminals: copper alloy with gold plate over nickel plate 3 Terminals: silver plate with outer layer in gold plating</p> <hr/> <p><b>7 EPOXY SEAL</b> E epoxy seal</p>	<b>M1</b> Solder Lug	<b>VS21</b> Snap-In, U bracket, .620 mounting x .460 high	<b>M2</b> PCB	<b>VS3</b> PC Mount, U bracket, .620 mounting x .630 high	<b>M6</b> PC Mount, 90° horizontal	<b>VS4</b> PC Mount, U bracket, .750 mounting x .460 high	<b>M61</b> Snap-In, 90° horizontal	<b>VS5</b> PC Mount, U bracket, .750 mounting x .630 high	<b>M7</b> PC Mount, 90° vertical		<b>M71</b> Snap-In, 90° vertical		<b>VS2</b> PC Mount, U bracket, .620 mounting x .460 high		Material	Terminal Plating	Rating	Approvals	G silver <sup>1</sup>	gold over silver <sup>2</sup>	1A@120VAC or 28VDC	UL, CUL IP68	Q silver <sup>1</sup>	silver <sup>1</sup>	1A@120VAC or 28VDC	UL, CUL IP68	R gold <sup>2</sup>	gold <sup>2</sup>	0.4VA max. @20V max (AC/DC)	IP68
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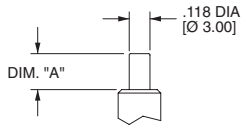
#### 3MA-Series Ordering Scheme



<p><b>1 SERIES</b> 3MA Alternate-Action Miniature Pushbutton Switch</p> <hr/> <p><b>2 POLES</b> SP single pole      DP double pole      3P three pole      4P four pole</p> <hr/> <p><b>3 CIRCUIT</b> ( ) - momentary <b>Switching Position:</b> 1                      ON                      2-3, 5-6, 8-9, 11-12      OPEN                      NONE                      2-1, 5-4, 8-7, 11-10 2                      ON                      NONE</p> <hr/> <p><b>4 ACTUATOR</b> <b>SQUARE ACTUATOR</b> (use with Color Options in Selection 5A &amp; 5B.) AP1 square with no frame AP2 square raised above frame <b>PLUNGER ACTUATOR</b> (use with Bushing Options in Selection 5) PA .118 dia. x .299" plunger length PI .118 dia. x .244" plunger length PL .118 dia. x .327" plunger length PC .315" dia. brass chrome plated plunger (for BD bushing only) PD .242" dia. brass chrome plated plunger (for BD bushing only)</p> <hr/> <p><b>5A ACTUATOR COLOR &amp; 5B FRAME COLOR</b><sup>1,2</sup></p> <table style="width: 100%;"> <tr> <td style="width: 33%;">1 white</td> <td style="width: 33%;">4 orange</td> <td style="width: 33%;">7 blue</td> </tr> <tr> <td>2 black</td> <td>5 yellow</td> <td>8 brown</td> </tr> <tr> <td>3 red</td> <td>6 green</td> <td>9 gray</td> </tr> </table> <p>1 Black, red and white are standard. Other colors available, consult factory for details. 2 Selection 5B is blank if actuator style AP1 (no frame) <b>OR</b></p> <p><b>5 BUSHING</b> BD Big bushing for PC, PD actuator 15/32" B10 Threaded 1/4 - 40 B20 Unthreaded B21 Unthreaded with flat</p> <p>NOTE: For CAP options, see ordering scheme on page 35.</p>	1 white	4 orange	7 blue	2 black	5 yellow	8 brown	3 red	6 green	9 gray	<p><b>6 TERMINATION</b></p> <table style="width: 100%;"> <tr> <td style="width: 50%;"><b>M1</b> Solder Lug</td> <td><b>VS2</b> PC Mount, U bracket, .620 mounting x .460 high</td> </tr> <tr> <td><b>M2</b> PCB</td> <td><b>VS3</b> PC Mount, U bracket, .620 mounting x .630 high</td> </tr> <tr> <td><b>M5-1</b> Wire Wrap .750 [19.05]</td> <td><b>VS4</b> PC Mount, U bracket, .750 mounting x .460 high</td> </tr> <tr> <td><b>M5-2</b> Wire Wrap .964 [24.48]</td> <td><b>VS5</b> PC Mount, U bracket, .750 mounting x .630 high</td> </tr> <tr> <td><b>M5-3</b> Wire Wrap .425 [10.80]</td> <td></td> </tr> <tr> <td><b>M5-4</b> Wire Wrap 1.062 [26.87]</td> <td></td> </tr> <tr> <td><b>M6</b> PC Mount, 90° horizontal</td> <td></td> </tr> <tr> <td><b>M7</b> PC Mount, 90° vertical</td> <td></td> </tr> </table> <hr/> <p><b>7 CONTACT</b></p> <table style="width: 100%;"> <thead> <tr> <th>Material</th> <th>Terminal Plating</th> <th>Rating</th> <th>Approvals</th> </tr> </thead> <tbody> <tr> <td>G silver<sup>1</sup></td> <td>gold over silver<sup>2</sup></td> <td>6A@125VAC or 28VDC, 3A@250VAC</td> <td>UL, CUL</td> </tr> <tr> <td>K gold<sup>2</sup></td> <td>tin-lead<sup>4</sup></td> <td>6A@125VAC or 28VDC, 3A@250VAC</td> <td>UL, CUL</td> </tr> <tr> <td>P silver<sup>1</sup></td> <td>tin-lead<sup>4</sup></td> <td>6A@125VAC or 28VDC, 3A@250VAC</td> <td>UL, CUL</td> </tr> <tr> <td>Q silver<sup>1</sup></td> <td>silver<sup>1</sup></td> <td>6A@125VAC or 28VDC, 3A@250VAC</td> <td>UL, CUL</td> </tr> <tr> <td>R gold<sup>2</sup></td> <td>gold<sup>2</sup></td> <td>0.4VA max. @20V max (AC/DC)</td> <td></td> </tr> </tbody> </table> <p>NOTE: Tin-lead option available with PC type terminations only. 1 Moveable contact &amp; terminals: copper alloy, silver plate 2 Moveable contact &amp; 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</p> <hr/> <p><b>8 EPOXY SEAL</b> E epoxy seal</p>	<b>M1</b> Solder Lug	<b>VS2</b> PC Mount, U bracket, .620 mounting x .460 high	<b>M2</b> PCB	<b>VS3</b> PC Mount, U bracket, .620 mounting x .630 high	<b>M5-1</b> Wire Wrap .750 [19.05]	<b>VS4</b> PC Mount, U bracket, .750 mounting x .460 high	<b>M5-2</b> Wire Wrap .964 [24.48]	<b>VS5</b> PC Mount, U bracket, .750 mounting x .630 high	<b>M5-3</b> Wire Wrap .425 [10.80]		<b>M5-4</b> Wire Wrap 1.062 [26.87]		<b>M6</b> PC Mount, 90° horizontal		<b>M7</b> PC Mount, 90° vertical		Material	Terminal Plating	Rating	Approvals	G silver <sup>1</sup>	gold over silver <sup>2</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL	K gold <sup>2</sup>	tin-lead <sup>4</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL	P silver <sup>1</sup>	tin-lead <sup>4</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL	Q silver <sup>1</sup>	silver <sup>1</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL	R gold <sup>2</sup>	gold <sup>2</sup>	0.4VA max. @20V max (AC/DC)	
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K gold <sup>2</sup>	tin-lead <sup>4</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL																																															
P silver <sup>1</sup>	tin-lead <sup>4</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL																																															
Q silver <sup>1</sup>	silver <sup>1</sup>	6A@125VAC or 28VDC, 3A@250VAC	UL, CUL																																															
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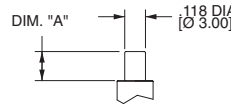
## 3MN-Series Dimensional Specifications: in. [mm]

### PLUNGER



OPTION CODE	DIM. "A"
P0	.000 [0.00]
P1	.205 [5.20]
P2	.079 [2.00]

FOR B10,B11,B20,B21 ONLY

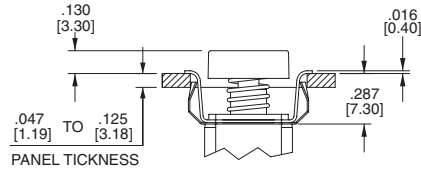
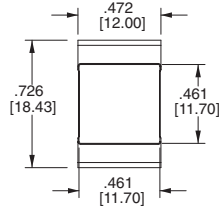


OPTION CODE	DIM. "A"
P0	.098 [2.50]
P1	.295 [7.50]
P2	.165 [4.20]

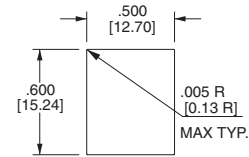
FOR B6 ONLY

### ACTUATOR

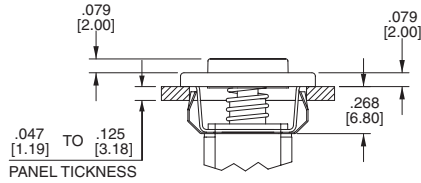
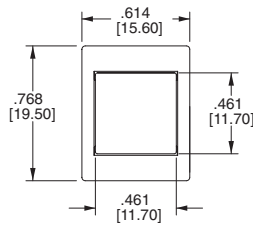
#### AP1



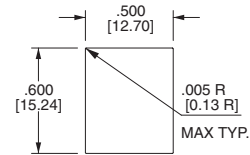
#### PANEL MOUNTING



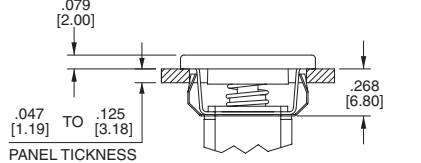
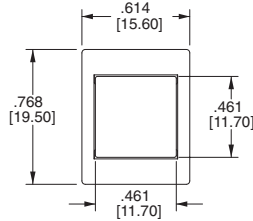
#### AP2



#### PANEL MOUNTING

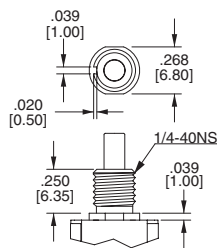


#### AP3

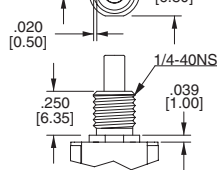


### BUSHING

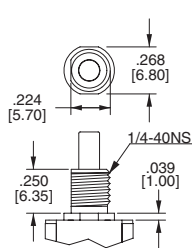
**B10**  
STANDARD KEYWAY  
THREADED SHOWN



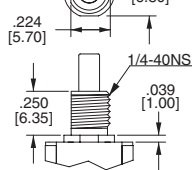
**B20**  
STANDARD KEYWAY  
NON-THREADED



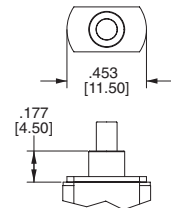
**B11**  
THREADED SHOWN  
WITH FLAT



**B21**  
NON-THREADED  
WITH FLAT

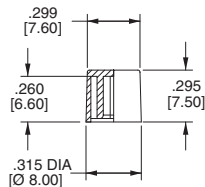


**B6**  
NON-THREADED  
(FOR TERMINATION  
OPTIONS VS6-VS9 ONLY)

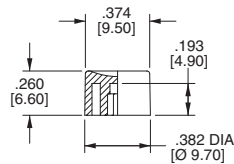


### CAP

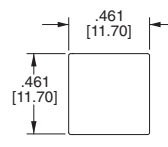
#### C1



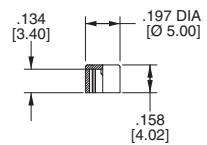
#### C2



#### C3



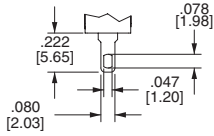
#### C4



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

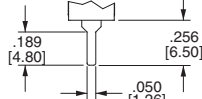
### TERMINATION

**M1**



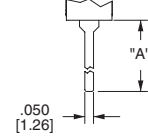
THK .030 [0.75]

**M2**



THK .030 [0.75]

**M5**

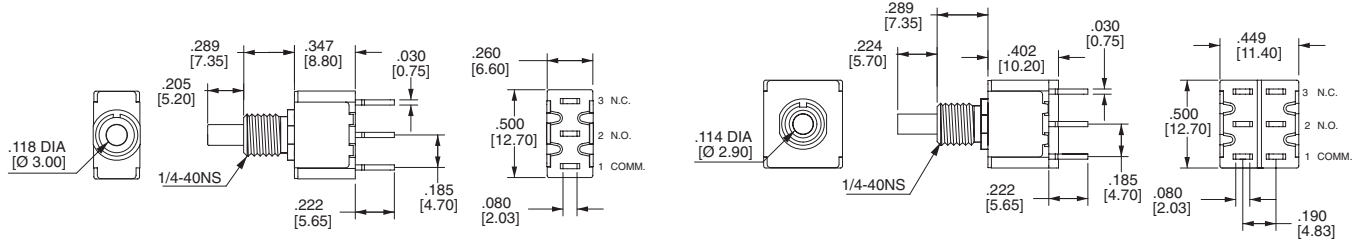


THK .030 [0.75]

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

### SINGLE POLE

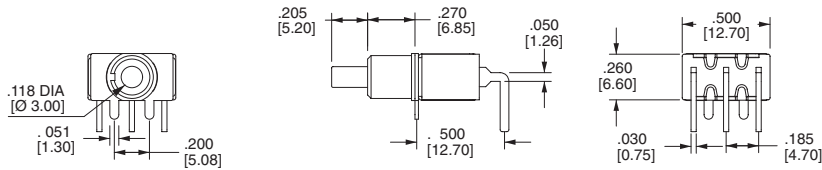
### DOUBLE POLE



**M6**

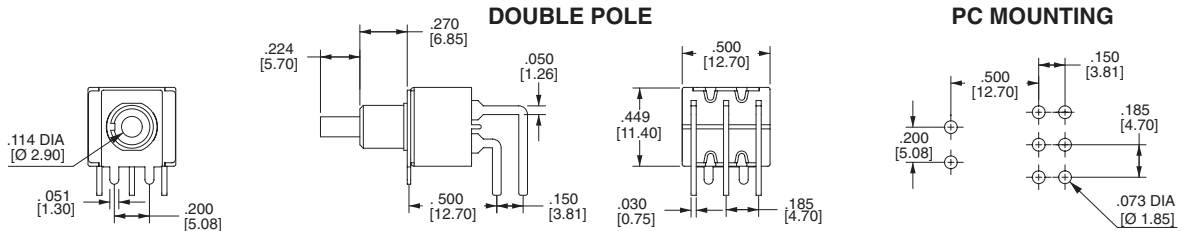
### SINGLE POLE

### PC MOUNTING



### DOUBLE POLE

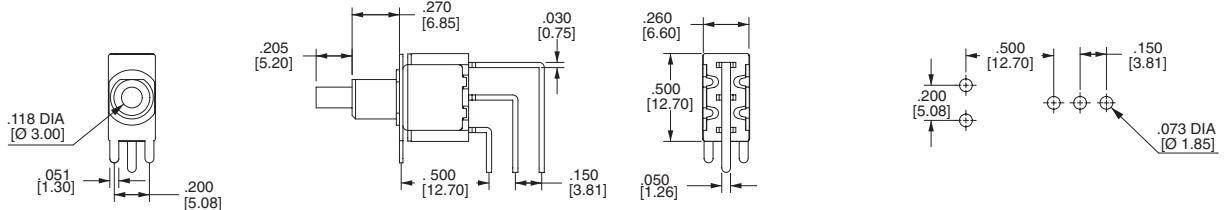
### PC MOUNTING



**M7**

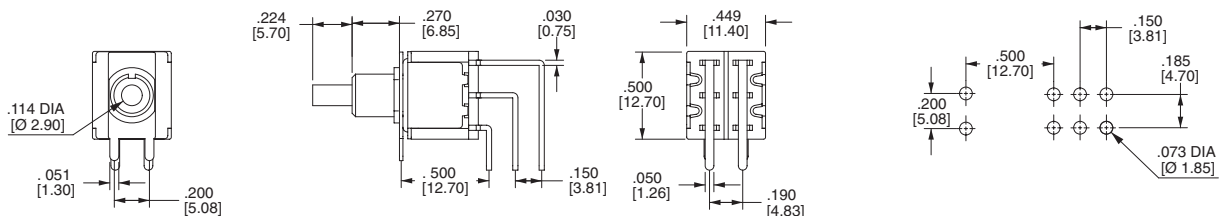
### SINGLE POLE

### PC MOUNTING



### DOUBLE POLE

### PC MOUNTING

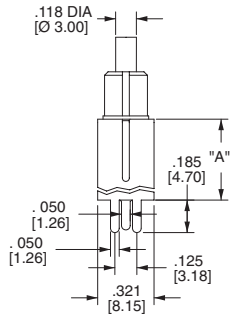


## 3MN-Series Dimensional Specifications: in. [mm]

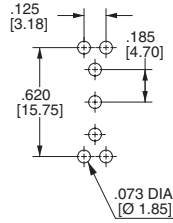
### TERMINATION

#### SINGLE POLE

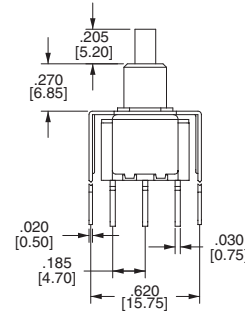
OPTION CODE	DIM. "A"
VS2	.460 [11.68]
VS3	.630 [16.00]
VS7	[16.00]



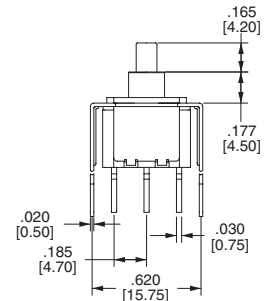
#### PC MOUNTING



#### VS2-VS3

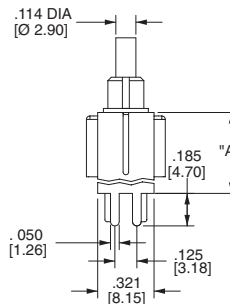


#### VS6-VS7 (For B6 Bushing Only)

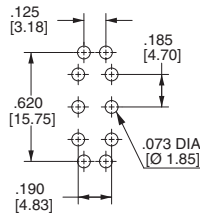


#### DOUBLE POLE

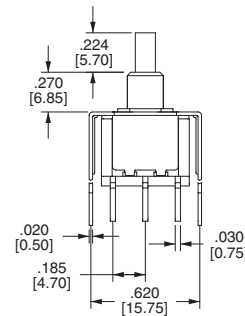
OPTION CODE	DIM. "A"
VS2	.460 [11.68]
VS6	[11.68]
VS3	.630 [16.00]
VS7	[16.00]



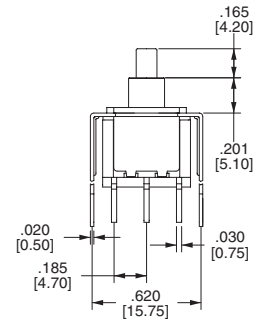
#### PC MOUNTING



#### VS2-VS3

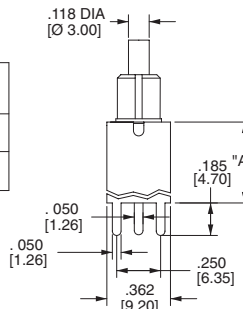


#### VS6-VS7 (For B6 Bushing Only)

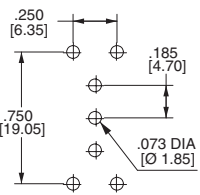


#### SINGLE POLE

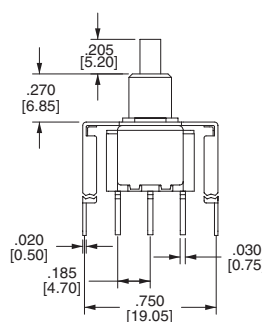
OPTION CODE	DIM. "A"
VS4	.460 [11.68]
VS8	[11.68]
VS5	.630 [16.00]
VS9	[16.00]



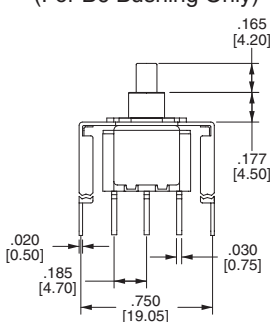
#### PC MOUNTING



#### VS4-VS5

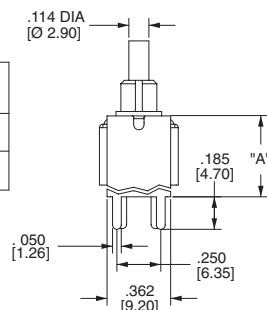


#### VS8-VS9 (For B6 Bushing Only)

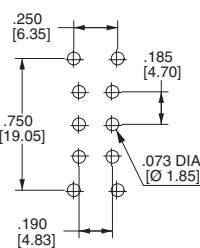


#### DOUBLE POLE

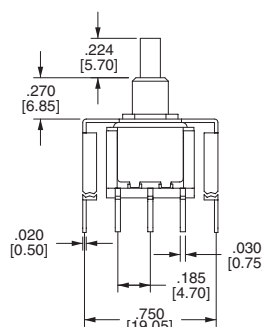
OPTION CODE	DIM. "A"
VS4	.460 [11.68]
VS8	[11.68]
VS5	.630 [16.00]
VS9	[16.00]



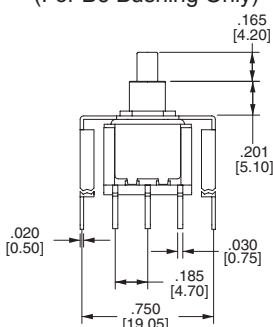
#### PC MOUNTING



#### VS4-VS5

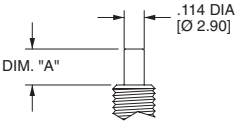
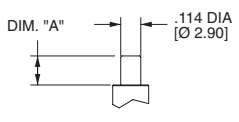


#### VS8-VS9 (For B6 Bushing Only)

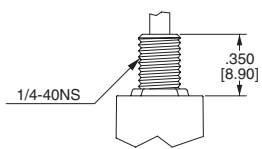
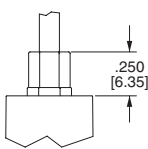


## 3MS-Series Dimensional Specifications: in. [mm]

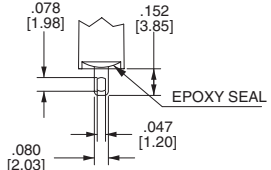
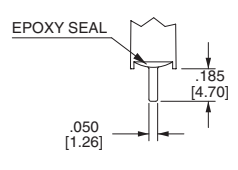
### PLUNGER

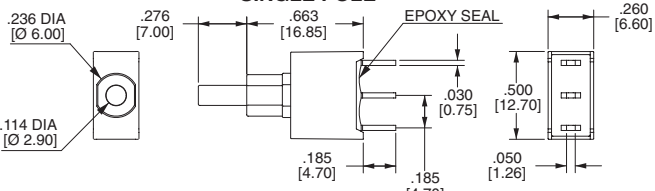
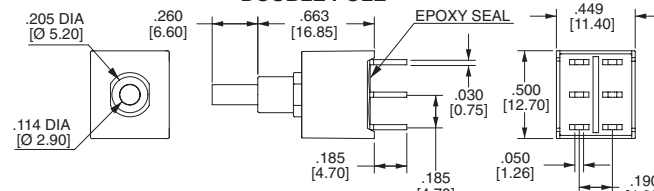
 <p>DIM. "A"</p> <p>.114 DIA [Ø 2.90]</p> <table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM. "A"</th> </tr> </thead> <tbody> <tr> <td><b>P1</b></td> <td>.173 [4.40]</td> </tr> <tr> <td><b>P2</b></td> <td>.220 [5.60]</td> </tr> <tr> <td><b>P3</b></td> <td>.087 [2.20]</td> </tr> </tbody> </table> <p>FOR B1 BUSHING</p>	OPTION CODE	DIM. "A"	<b>P1</b>	.173 [4.40]	<b>P2</b>	.220 [5.60]	<b>P3</b>	.087 [2.20]	 <p>DIM. "A"</p> <p>.114 DIA [Ø 2.90]</p> <table border="1"> <thead> <tr> <th>OPTION CODE</th> <th>DIM. "A"</th> </tr> </thead> <tbody> <tr> <td><b>P1</b></td> <td>.276 [7.00]</td> </tr> <tr> <td><b>P2</b></td> <td>.327 [8.30]</td> </tr> <tr> <td><b>P3</b></td> <td>.193 [4.90]</td> </tr> </tbody> </table> <p>FOR B4 BUSHING</p>	OPTION CODE	DIM. "A"	<b>P1</b>	.276 [7.00]	<b>P2</b>	.327 [8.30]	<b>P3</b>	.193 [4.90]
OPTION CODE	DIM. "A"																
<b>P1</b>	.173 [4.40]																
<b>P2</b>	.220 [5.60]																
<b>P3</b>	.087 [2.20]																
OPTION CODE	DIM. "A"																
<b>P1</b>	.276 [7.00]																
<b>P2</b>	.327 [8.30]																
<b>P3</b>	.193 [4.90]																

### BUSHING

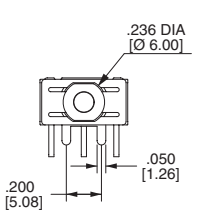
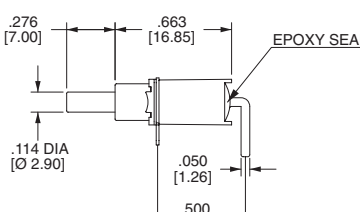
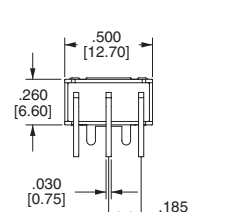
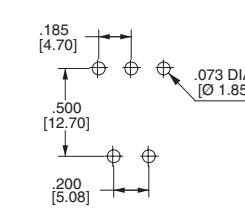
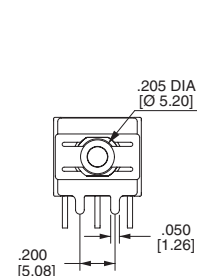
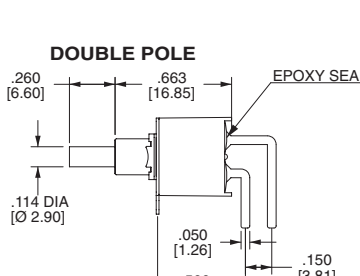
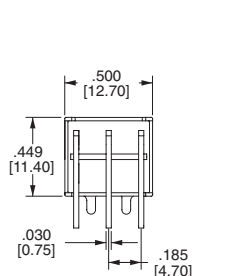
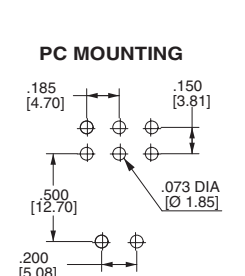
<p><b>B1</b></p>  <p>1/4-40NS</p> <p>.350 [8.90]</p>	<p><b>B4</b></p>  <p>.250 [6.35]</p>
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### TERMINATION

<p><b>M1</b></p>  <p>.078 [1.98]</p> <p>.152 [3.85]</p> <p>EPOXY SEAL</p> <p>.080 [2.03]</p> <p>.047 [1.20]</p> <p>THK .030 [0.75]</p>	<p><b>M2</b></p>  <p>EPOXY SEAL</p> <p>.185 [4.70]</p> <p>.050 [1.26]</p> <p>THK .030 [0.75]</p>
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<p><b>SINGLE POLE</b></p>  <p>.236 DIA [Ø 6.00]</p> <p>.276 [7.00]</p> <p>.663 [16.85]</p> <p>EPOXY SEAL</p> <p>.260 [6.60]</p> <p>.030 [0.75]</p> <p>.500 [12.70]</p> <p>.185 [4.70]</p> <p>.185 [4.70]</p> <p>.050 [1.26]</p>	<p><b>DOUBLE POLE</b></p>  <p>.205 DIA [Ø 5.20]</p> <p>.260 [6.60]</p> <p>.663 [16.85]</p> <p>EPOXY SEAL</p> <p>.449 [11.40]</p> <p>.030 [0.75]</p> <p>.500 [12.70]</p> <p>.185 [4.70]</p> <p>.185 [4.70]</p> <p>.050 [1.26]</p> <p>.190 [4.83]</p>
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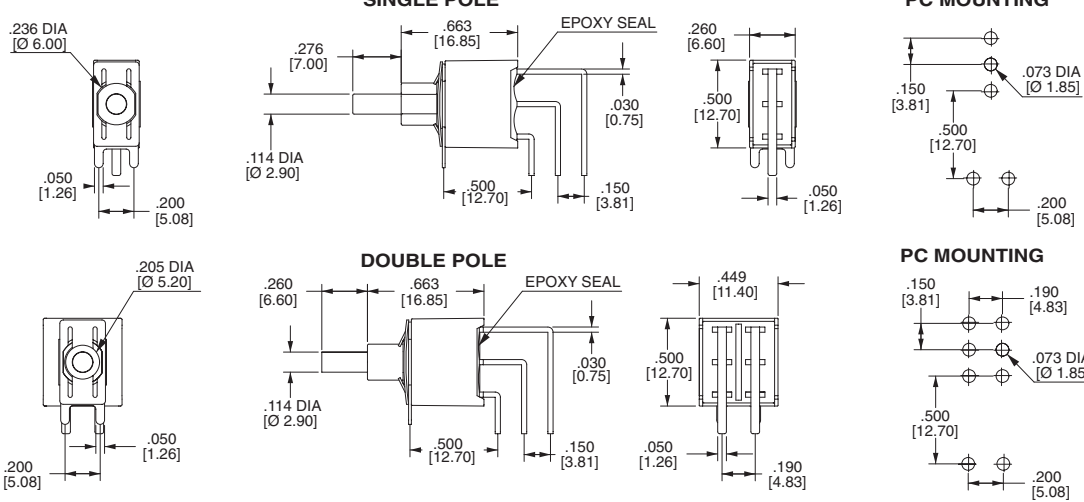
**M6**

 <p>.236 DIA [Ø 6.00]</p> <p>.050 [1.26]</p> <p>.200 [5.08]</p>	<p><b>SINGLE POLE</b></p>  <p>.276 [7.00]</p> <p>.663 [16.85]</p> <p>EPOXY SEAL</p> <p>.114 DIA [Ø 2.90]</p> <p>.050 [1.26]</p> <p>.500 [12.70]</p>	 <p>.500 [12.70]</p> <p>.260 [6.60]</p> <p>.030 [0.75]</p> <p>.185 [4.70]</p>	<p><b>PC MOUNTING</b></p>  <p>.185 [4.70]</p> <p>.500 [12.70]</p> <p>.200 [5.08]</p> <p>.073 DIA [Ø 1.85]</p>
 <p>.205 DIA [Ø 5.20]</p> <p>.050 [1.26]</p> <p>.200 [5.08]</p>	<p><b>DOUBLE POLE</b></p>  <p>.260 [6.60]</p> <p>.663 [16.85]</p> <p>EPOXY SEAL</p> <p>.114 DIA [Ø 2.90]</p> <p>.050 [1.26]</p> <p>.500 [12.70]</p> <p>.150 [3.81]</p>	 <p>.500 [12.70]</p> <p>.449 [11.40]</p> <p>.030 [0.75]</p> <p>.185 [4.70]</p>	<p><b>PC MOUNTING</b></p>  <p>.185 [4.70]</p> <p>.150 [3.81]</p> <p>.500 [12.70]</p> <p>.200 [5.08]</p> <p>.073 DIA [Ø 1.85]</p>

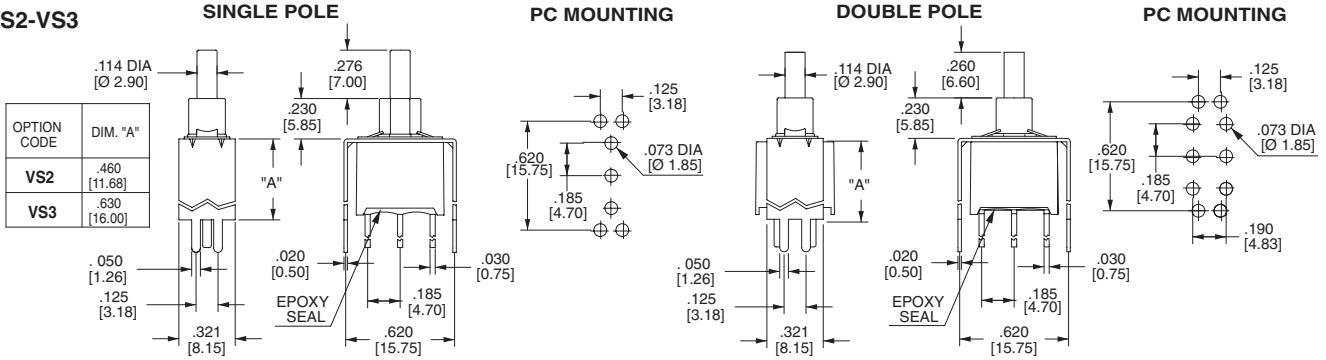
## 3MS-Series Dimensional Specifications: in. [mm]

### TERMINATION

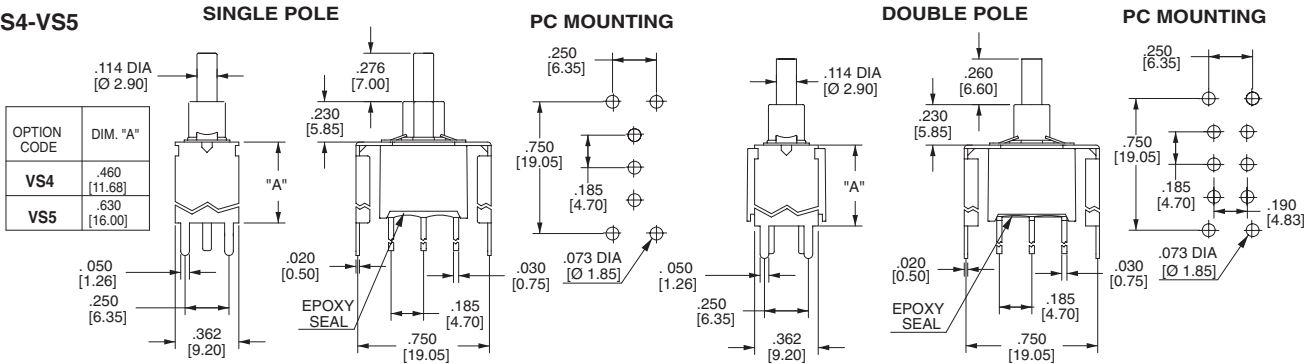
**M7**



**VS2-VS3**



**VS4-VS5**

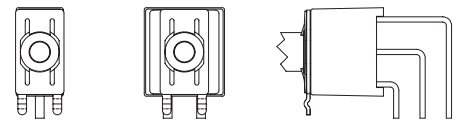


### SNAP-IN TERMINATION OPTIONS

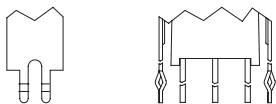
**M61**



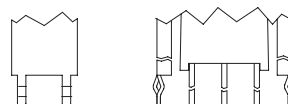
**M71**



**VS21, VS31**



**VS41, VS51**



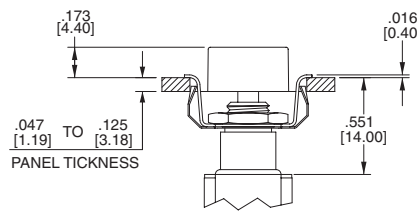
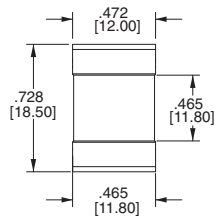
M61, M71, VS21, VS31, VS41, VS51 have the same P.C. mounting but with snap-in bracket.



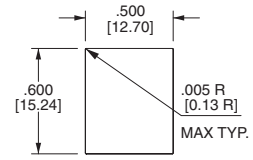
## 3MA-Series Dimensional Specifications: in. [mm]

### ACTUATOR

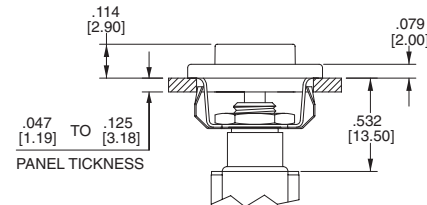
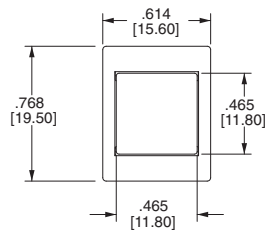
AP1



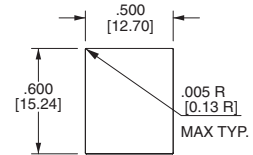
PANEL MOUNTING



AP2

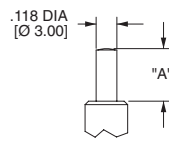


PANEL MOUNTING



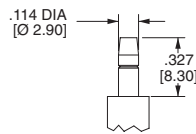
### PLUNGER

PA,PI

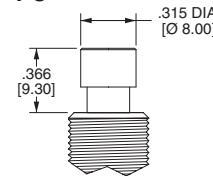


OPTION CODE	DIM. "A"
PA	.299 [7.60]
PI	.244 [6.20]

PL

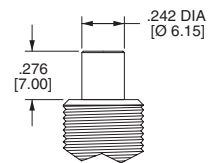


PC



Brass Chrome Plated

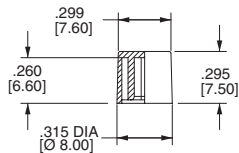
PD



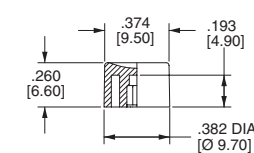
PC, PD Plunger must fit with BD bushing

### CAP

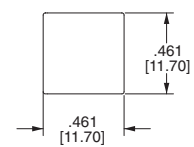
C1



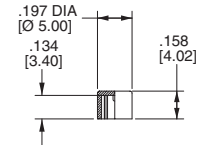
C2



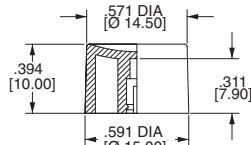
C3



C4

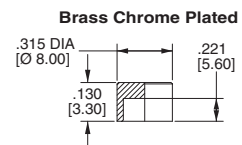


C5



For PL Bushing Only

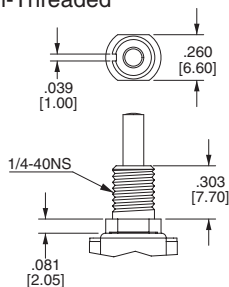
C6



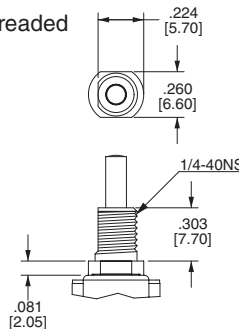
For PD Bushing Only

### BUSHING

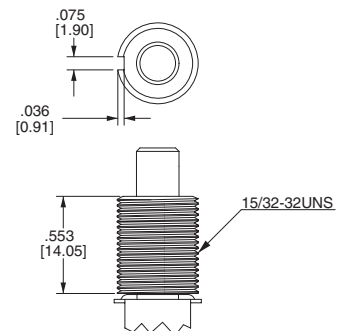
B10 Threaded  
B20 Non-Threaded



B21 Non-Threaded



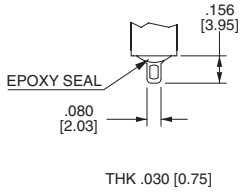
BD



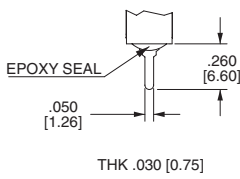
**3MA-Series Dimensional Specifications: in. [mm]**

**TERMINATION**

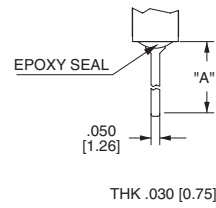
**M1**



**M2**



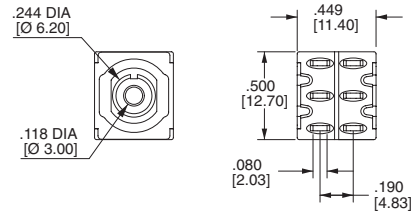
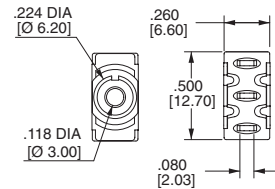
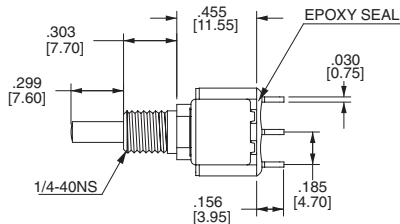
**M5**



OPTION CODE	DIM. "A"
<b>M5-1</b>	.750 [19.05]
<b>M5-2</b>	.964 [24.48]
<b>M5-3</b>	.425 [10.80]
<b>M5-4</b>	1.062 [26.97]

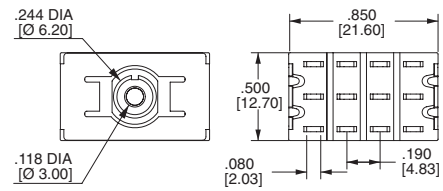
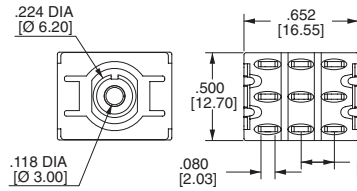
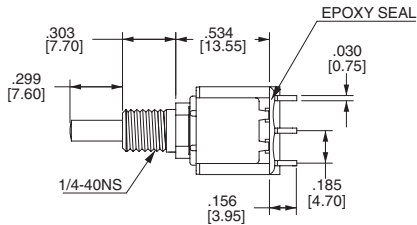
**SINGLE POLE**

**DOUBLE POLE**



**3 POLE**

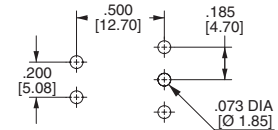
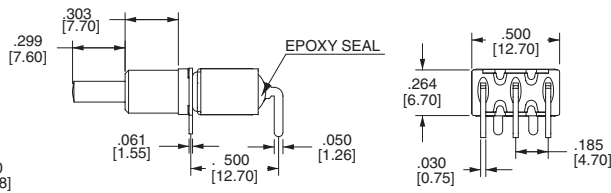
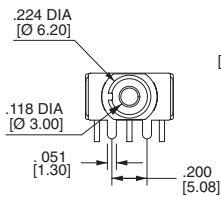
**4 POLE**



**M6**

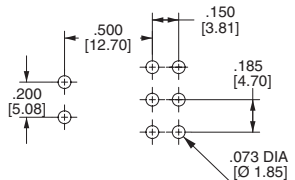
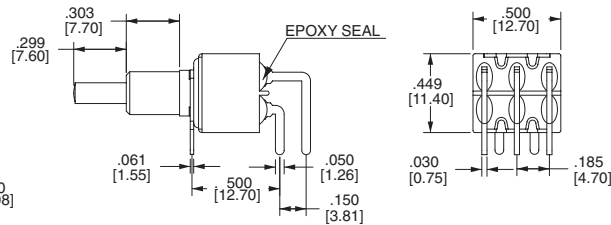
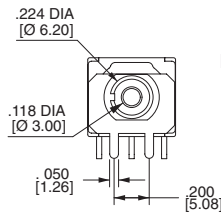
**SINGLE POLE**

**PC MOUNTING**



**DOUBLE POLE**

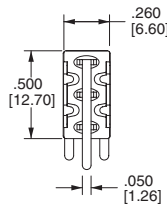
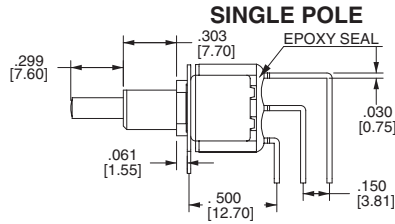
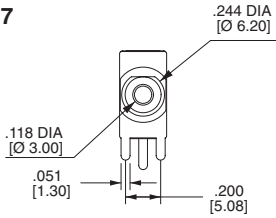
**PC MOUNTING**



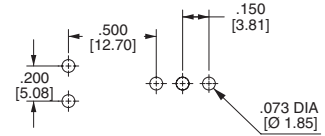
## 3MA-Series Dimensional Specifications: in. [mm]

### TERMINATION

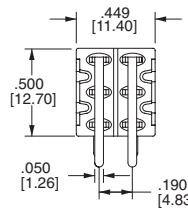
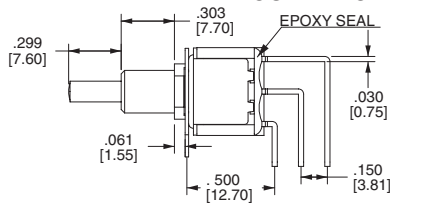
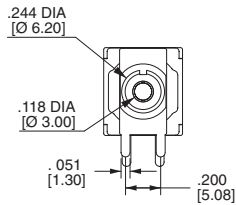
**M7**



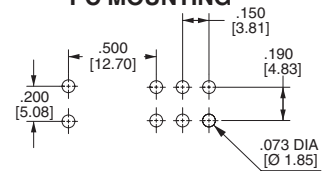
**PC MOUNTING**



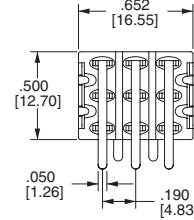
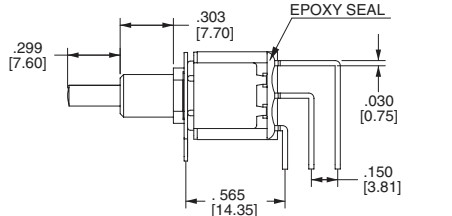
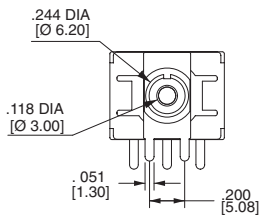
**DOUBLE POLE**



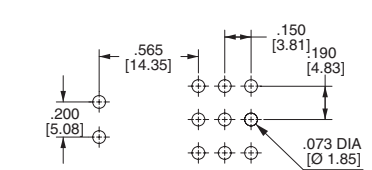
**PC MOUNTING**



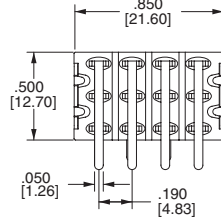
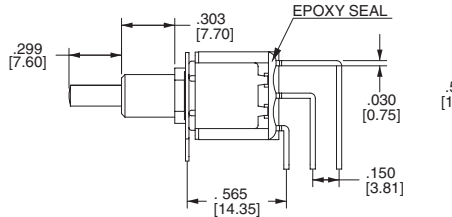
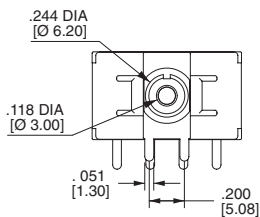
**THREE POLE**



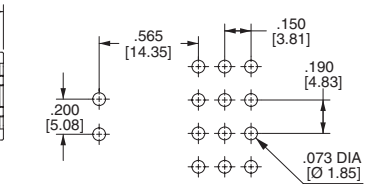
**PC MOUNTING**



**FOUR POLE**

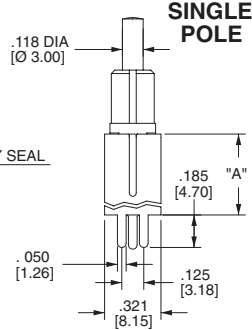
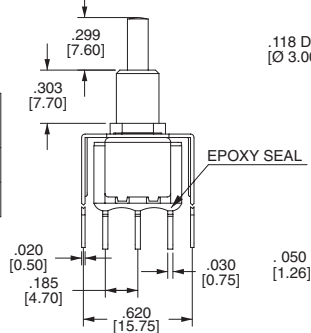


**PC MOUNTING**

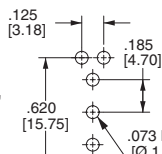


**VS2-VS3**

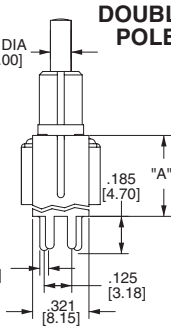
OPTION CODE	DIM. "A"
VS2	.460 [11.68]
VS3	.630 [16.00]



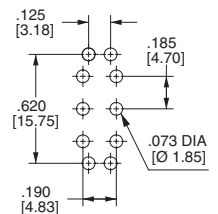
**SINGLE POLE PC MOUNTING**



**DOUBLE POLE**

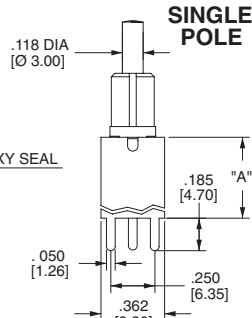
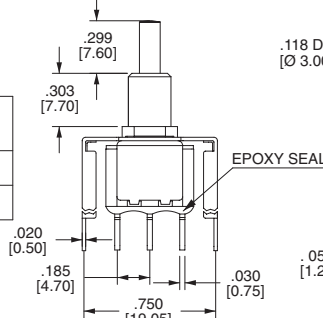


**PC MOUNTING**

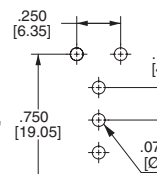


**VS4-VS5**

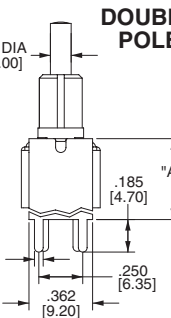
OPTION CODE	DIM. "A"
VS4	.460 [11.68]
VS5	.630 [16.00]



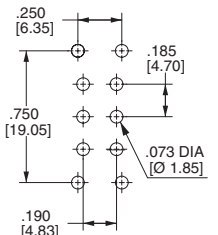
**SINGLE POLE PC MOUNTING**



**DOUBLE POLE**



**PC MOUNTING**



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Web: <http://oceanchips.ru/>

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