



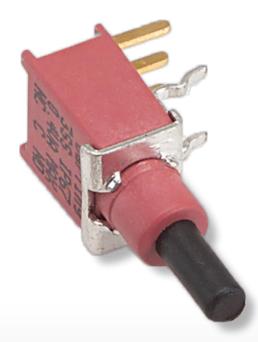
3S-Series

Miniature Pushbutton Switches

PRODUCT WEBPAGE

request sample, configure part





The 3S family of sub-miniature pushbutton switches is composed of three switch series; the 3SI-Series subminiature pushbutton switch, the 3SS-Series sealed sub-miniature pushbutton switch, and the 3SM-Series surface mount sealed sub-miniature pushbutton switch. All switches are available with a variety of rating, termination and actuator choices, and will withstand temperatures from -30°C to +85°C.





28 VDC

Typical Applications

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

0

Tech Specs



3SS-Series Sealed Sub-Miniature Pushbutton Switch



3S1-Series Sub-Miniature Pushbutton Switch

Material



3SM-Series Sealed Surface Mount Sub-Miniature Pushbutton Switch

Electrical

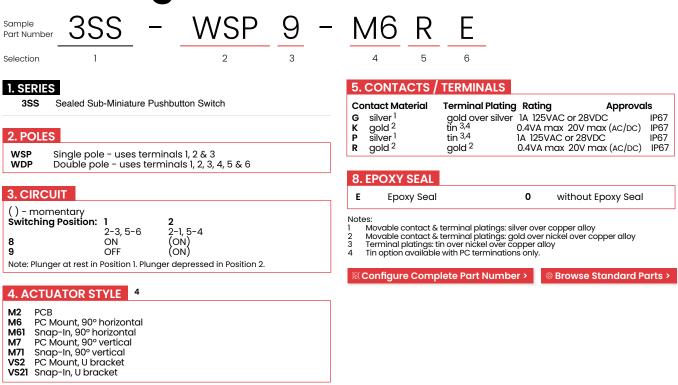
Contact Rating	refer to ordering scheme
Electrical Life	50,000 make & break cycles @ full load
Contact Resistance	20 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts
Insulation Resistance	1000 MΩ min.
Dielectric Strength	1500 Volts RMS @ sea level

Physical

Operating Temperature	-30°C to +85°C
Index of Protection	3SS & 3SM-Series: IP67
Solder Heat Resistance	MIL-STD-202, Method 210

Case	all UL94 V-0 3SI-Series: Dially phthalate (DAP) 3SS-Series: Glass filled nylon 6/6,flame retardant, heat stabilized 3SM-Series: Glass filled nylon 4/6,flame retardant, heat stabilized
Plunger	3SI-Series:Thermoplastic polyester, black 3SS-Series: Thermoplastic polyester (UL 94V-0), with internal o-ring 3SM-Series: Glass filled nylon 4/6,flame retardant, heat stabilized
Bushing	3SI-Series: Brass, nickel plated 3SS-Series: Glass filled nylon 6/6,flame retardant, heat stabilized (UL 94V-0) 3SM-Series: Glass filled nylon 4/6,flame retardant, heat stabilized (UL 94V-0)
Housing	Stainless Steel
Switch Support	Brass, tin plated
Terminal Seal	Ероху

Ordering Scheme



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

Ordering Schemes											
Sample Part Number	351	—	SP	9 -	B6	– M7 -		R	Е		

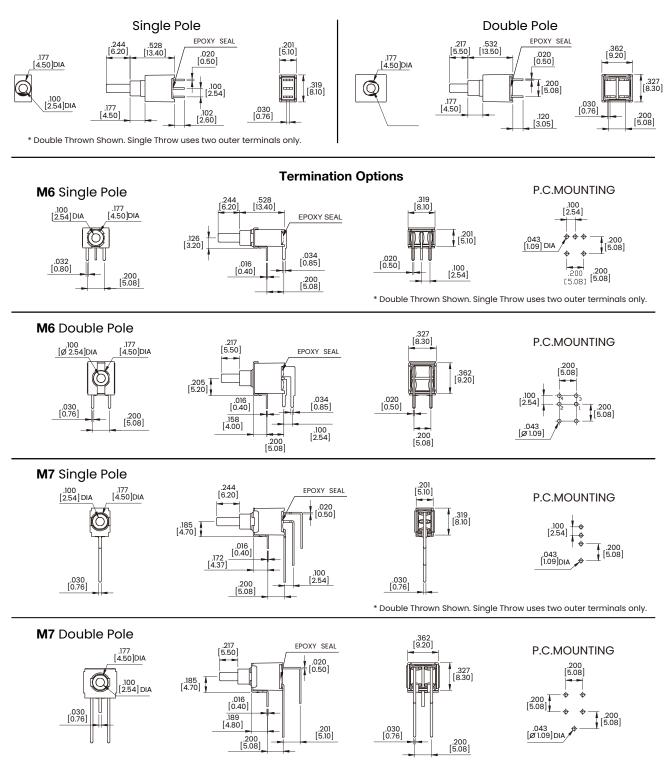
7 2 3 4 5 6 Selection 1 1. SERIES **5. TERMINATION** 351 Sub-Miniature Pushbutton Switch M1 Solder Lug M6 PC Mount, 90° horizontal PC Mount, 90° vertical VS2 PC Mount, U bracket M61 Snap-In, 90° horizontal M7 M2 PCB M71 2. POLES Snap-In, 90° vertical VS21 Snap-In, U bracket SP Single pole - uses terminals 1, 2 & 3 6. CONTACTS / TERMINALS Terminal Plating Rating 3. CIRCUIT Contact Material G silver ³ gold over silver 1A@125VAC or 28VDC () - momentary gold 4,7 0.4VA max @ 20V max (AC/DC) 1A@125VAC or 28VDC tin ⁶ tin ⁶ K P Switching Position: silver 3,8 2-3, 5-6 2-1, 5-4 silver ³ silver ³ 1A@125VAC or 28VDC Q R ON (OŃ) 8 gold⁴ gold 5 0.4VA max @ 20V max (AC/DC) 9 OFF (ON) Note: Plunger at rest in Position 1. Plunger depressed in Position 2. **7. EPOXY SEAL 4. ACTUATOR STYLE** Е Epoxy Seal 0 without Epoxy Seal **B5** 1 10-48 Threaded Flush Bushing в9 Notes es: Hardware includes (2) 2MI-HDW21 nuts, and (1) 2MI-HDW22 washer Hardware includes (2) 2MI-HDW2 nuts, (1) 2MI-HDW11 washer, and (1) 2MI-HDW16 locking ring Movable contact and terminal platings: silver over copper alloy Movable contact and terminal platings: gold over nickel over copper alloy Terminal platings: gold over nickel over copper alloy Terminal platings: Gold over nickel alloy Terminal contact platings: Gold over nickel alloy Terminal contact platings: silver over nickel alloy 1/4" Unthreaded "D" B6 Unthreaded "D" R0 1 2 0P1 Snap-In with bezel **B7** Unthreaded **B8** 2 1/4-40 Threaded "D" P0 Flush Plunger 3 4 5 6 7 8 🗟 Configure Complete Part Number > Browse Standard Parts > B6 Sample Part Number Selection 4 5 5. CONTACTS/TERMINALS 1. SERIES Contact Material Terminal Plating Rating 3MS Sealed Snap-Action Miniature Pushbutton Switch Approvals 1A 125VAC or 28VDC silver¹ gold over silver tin ⁴ tin ⁴ G IP67 gold ^{2,5} silver ^{1,6} 0.4VA max 20V max (AC/DC) K P IP67 2. POLES 1A 125VAC or 28VDC IP67 silver¹ 1A 125VAC or 28VDC Q R silver¹ IP67 Single pole - uses terminals 1, 2 & 3 SP gold² gold ³ 0.4VA max 20V max (AC/DC) IP67 **6. EPOXY SEAL** 3. CIRCUIT Ε **Epoxy Seal** 0 without Epoxy Seal () - momentary Switching Position: 1 2 2-3, 5-6 2-1, 5-4 7. PACKAGING 7 ON (ON) tape reel - 500 pieces per reel T/R Note: Plunger at rest in Position 1. Plunger depressed in Position 2. Switches are bulk packed, unless T/R is specified at the end of the part number. **4. TERMINATION** Notes: As: Movable contact and terminals platings: silver over copper alloy Movable contact platings: gold over nickel over copper alloy Terminal platings: gold over nickel over copper alloy Terminals platings: tin over copper alloy Terminal contact platings: gold over nickel alloy Terminal contact platings: silver over nickel alloy 23 Surface Mount, horizontal .433 [11.00 mm] К6 Surface Mount, 90° flat .286 [7.26 mm] Surface Mount, 90° right angle Surface Mount, 90° horizontal .353 [8.97 mm] M6 45 M7 **S6** 6 🗟 Configure Complete Part Number > 🧧 🐵 Browse Standard Parts >

3S-Series Accessories

To order accessories assembled on a switch, specify the switch number followed by the accessory part number and the word "assembled". Ex: 3SI-SP9-B6-M7-RE-C23 ASSEMBLED. To order accessories in bulk, specify the Series, followed by the accessory. Ex: 3SI-C13.

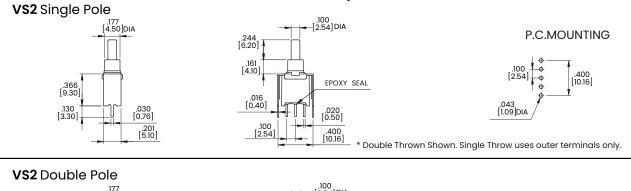
Op	tional Cap		Sample Part Number	3S1	_	C1	З			
			Selection	1		2	3			
1. SE 3S1	RIES Fits 3SS, 3S1 or 3MS				3.0	CAP COLC	DR			
	OGGLE CAP SIZE				1 2 3	White Black Red		5 6 7	Yellow Green Blue	
C1	.158″ [4.01 mm] height	C2	.138″ [35.05 mm] he	eight	4	Orange		,	DIGE	

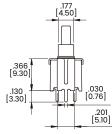
inches [millimeters]

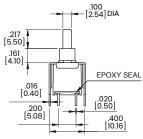


inches [millimeters]

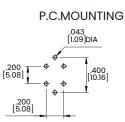
Termination Options



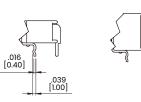


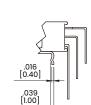


M71



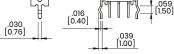
M61





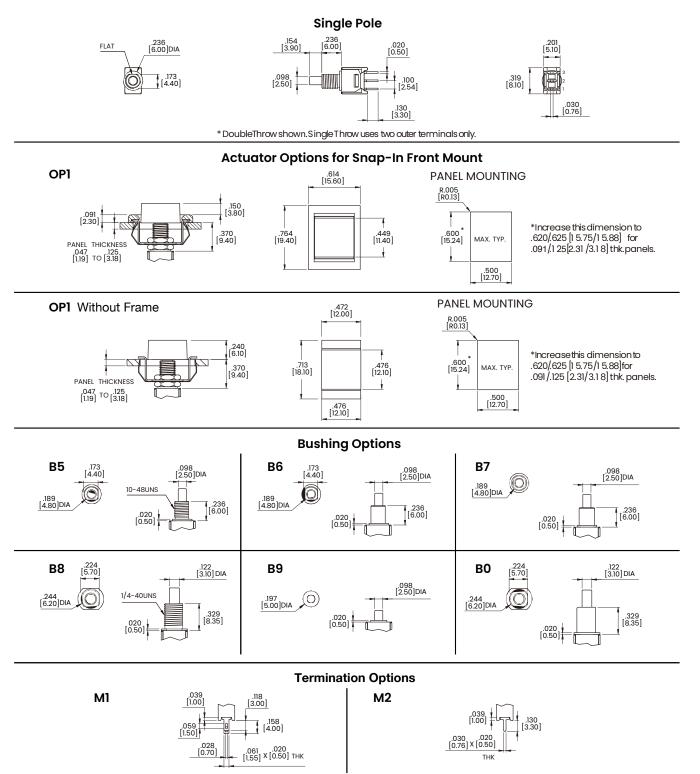
Snap-In Termination Options



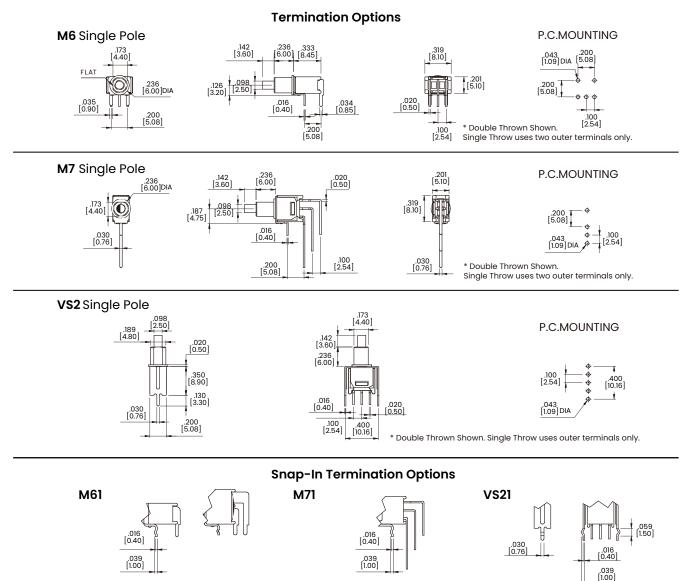


* PC Mounting for M61, M71, VS21 refer to M6, M7, VS2 respectively.

inches [millimeters]

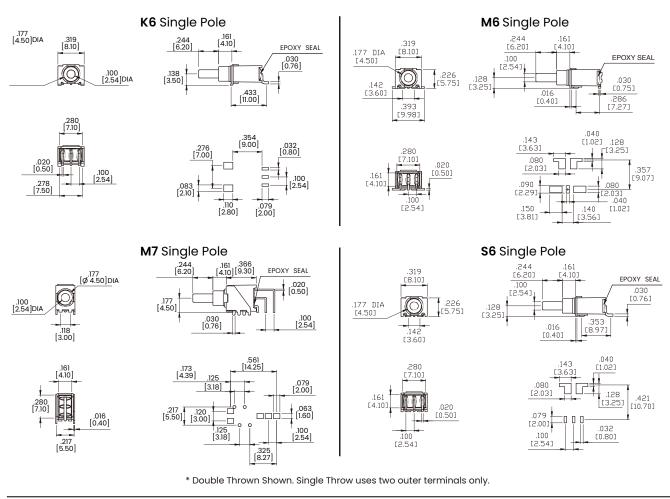


inches [millimeters]

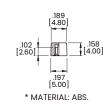


* PC Mounting for M61, M71, VS21 refer to M6, M7, VS2 respectively.

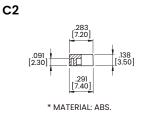
inches [millimeters]



Cl



Plunger Caps



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

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