

Product Type PC Mount Miniature & Sub-Miniature Pushbutton Switches

Product Series 3S-Series

Description

The 3S family of sub-miniature pushbutton switches is composed of three switch series:

3S1-Series sub-miniature pushbutton switch

3SS-Series sealed sub-miniature pushbutton switch 3SM-Series surface mount sealed sub-miniature pushbutton switch

These series of PC mount sub-miniature pushbutton switches offer a variety of ratings, circuits, contact materials, terminal platings, and optional color caps.

The 3SS-Series and 3SM-Series are sealed switches that are IP67 certified. All series within the 3S family of switches are able to withstand temperatures from -30°C to +85°C, and all offer PC mounting.

Certifications	3S1-Series: No agency listings 3SS-Series & 3SM-Series: IP67		
Number of Poles	3S1-Series: 1 pole		
	3SS & 3SM-Series: 1-2 pole		
Ratings	1A @ 125 VAC or 28VDC		
	0.4VA max @ 20V max (AC/DC)		
Dielectric Strength	1500 Volts RMS @ sea level		
Insulation Resistance	1000 megohms (minimum)		
Actuator Style	Round plunger		
Case Material	all UL94 V-0		
	3S1-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 Material	3S1-Series: Thermoplastic polyester, black		
	3SS-Series: Thermoplastic polyester (UL 94V-0), with internal o-		
	ring seal 3SM-Series: Nylon 4/6 (UL 94V-0), with internal o-ring seal		
Bushing Material	3S1-Series: Brass, nickel plated		
Dushing Matchia	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 Material	Stainless Steel		
Switch Support	Brass, tin plated		
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Terminal Options	Solder Lug PCB	
	PC Mount	
	Snap-in, U bracket	
Mounting Hole Dimensions	See PDF elibrary file above for dimensions	



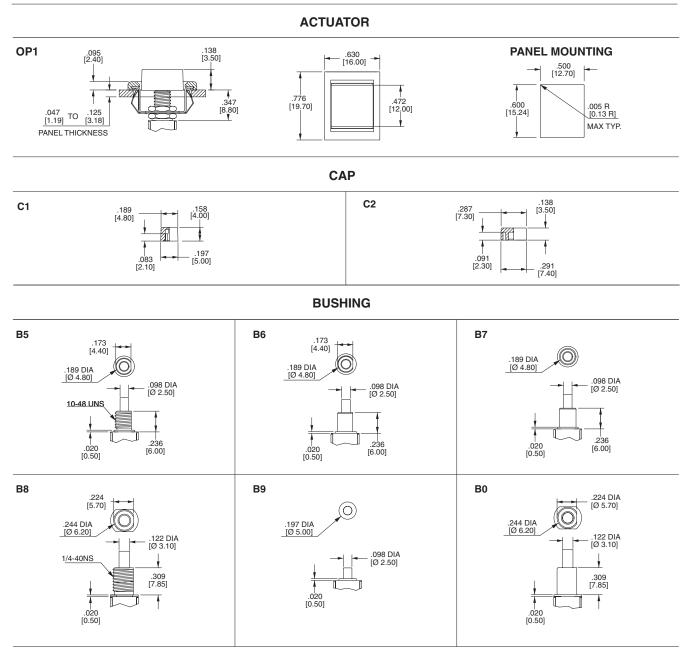
3S-Series Sub-Miniature Pushbutton Switches

	3S1-Series Sub-Miniature	Specifications
	Pushbutton Switch	Contact Rating refer to ordering scheme Electrical Life
		Contact Resistance 20 mΩ max. initial @ 2-4 VDC 100mA for both silver & gold plated contacts.
		Insulation Resistance 1000 M Ω min. Dielectric Strength 1500 Volts RMS @ sea level
The second se	3SS-Series	Operating Temperature30°C to +85°C Index of Protection 3SS & 3SM-Series: IP67 Solder Heat Resistance MIL-STD-202, Method 210
	Sealed Sub-Miniature Pushbutton Switch	Actuator Travel
		Case UL 94-0 <i>3S1-Series:</i> Dially phthalate (DAP) <i>3SS-Series:</i> Glass filled nylon 6/6, flame retardant, heat stabilized
		<i>3SM-Series:</i> Glass filled nylon 4/6, flame retardant, heat stabilized
	3SM-Series Sealed Surface	Plunger
	<i>Mount</i> Sub-Miniature Pushbutton Switch	<i>3SS -Series:</i> Thermoplastic poly- ester (UL 94V-0), with internal o-ring seal
		<i>3SM-Series:</i> Glass filled nylon 4/6, flame retardant, heat stabilized
		Bushing
		94V-0) <i>3SM-Series:</i> Glass filled nylon 4/6,
		flame retardant, heat stabilized (UL 94V-0) HousingStainless Steel
201 Carico Ordening Cohema		Switch Support Brass, tin plated Terminal Seal Epoxy
3S1-Series Ordering Scheme		
351 -	$[SP]_{3} - [E]_{4}$	$\frac{36}{5} - \left[\frac{M7}{5} - \frac{R}{6} \right]_{7} = \frac{1}{6}$
Series	Poles Circuit Bush	hing Termination Contact Seal 5 TERMINATION
3S1 Sub-Miniature Pushbutton Switch		M1 Solder Lug M2 PCB
2 POLES SP single pole		M6 PC Mount, 90° horizontal M61 Snap-In, 90° horizontal M7 PC Mount, 90° vertical M71 Snap-In, 90° vertical
3 CIRCUIT () - momentary		VS2 PC Mount, U bracket, .620 mounting x .460 high VS21 Snap-In, U bracket
8 ON (ON) 9 OFF (ON)		6 CONTACT Material Terminal Plating Rating G silver' gold over silver ³ 1A@125VAC or 28VDC
4 BUSHING B5 10-48 Threaded B6 Unthreaded "D"		K gold² tin-lead⁴ 0.4VA max. @20V max (AC/DC) P silver¹ tin-lead⁴ 1A@125VAC or 28VDC Q silver¹ silver¹ 1A@125VAC or 28VDC
B7UnthreadedB81/4-40 Threaded "D"B9Flush Bushing		R gold ² 0.4VA max. @20V max (AC/DC) NOTE: Tin-lead option available with PC type terminations only. 1 Moveable contact & terminals: copper alloy, silver plate
B0 1/4" Unthreaded "D"		 Moveable contact & terminals: copper alloy with gold plate over nickel plate Terminals: silver plated with outer layer in gold plating Outer terminals: copper alloy with tin-lead over nickel plate
		7 EPOXY SEAL E epoxy seal

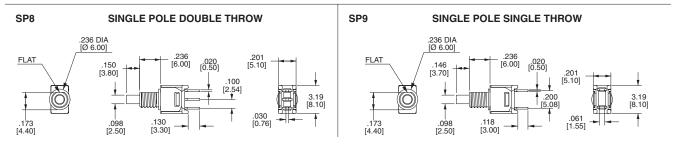
E epoxy seal



3S1-Series Dimensional Specifications: in. [mm]



TERMINATION





3S1-Series Dimensional Specifications: in. [mm]

