

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 | | |
| | - | | |

| Terminal Options | Solder Lug PCB | |
|--------------------------|--|--|
| | PC Mount | |
| | Snap-in, U bracket | |
| Mounting Hole Dimensions | See PDF elibrary file above for dimensions | |



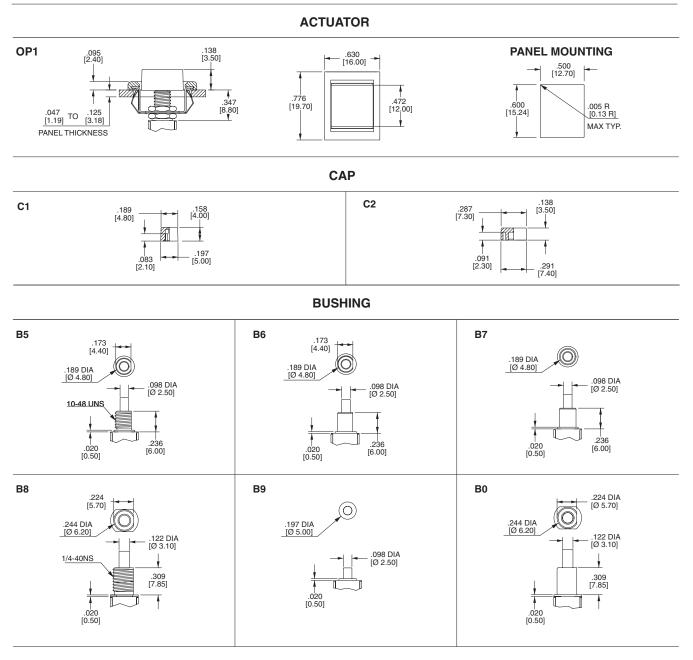
3S-Series Sub-Miniature Pushbutton Switches

| | 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 |

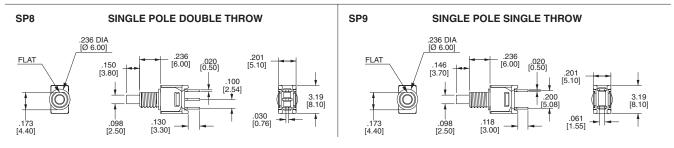
E epoxy seal



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



TERMINATION





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

