Tactile Switch (SMD)

Compact Surface Mount Tactile Switch with Sealed Construction

- Sealed construction conforming to IP67 (IEC-60529) provides high reliability in locations exposed to dust or water.
- Available with ground terminals for protection against static electricity.
- Use of a stainless-steel spring provides a crisp clicking action.
- Gold plated version enables stable contact and insulation over long periods of time.
- Available in embossed taping package for automatic insertion.
- RoHS Compliant

Ordering Information



			Model			
		Without ground termina		und terminal	With ground terminal	
Switch height	Operating force		Bags (100 per bag)	Embossed Tape (3,000 per reel)	Bags (100 per bag)	Embossed Tape (3,000 per reel)
3.1 mm	Standard	160g	B3SN-3012	B3SN-3012P	B3SN-3112	B3SN-3112P
	Gold-plated	180g		B3SN-3012P-G		

Note: Order in multiples of the quantities given for each package

Important Note: Switches cannot be water-washed.

Specifications

Characteristics

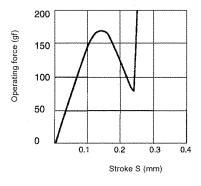
Contact form	SPST-NO
Switching capacity	1 to 50 mA, 5 to 24 VDC (resistive load)
Contact resistance	100 mΩ max. (rated: 1 mA, 5 VDC)
Insulation resistance	100 MΩ min. (at 250 VDC)
Dielectric strength	250 VAC, 50/60 Hz for 1 min.
Bounce time	5 ms max.
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 1,000 m/s ² (approx. 100 G) max.
Ambient operating temperature	-25° to 70°C (at 60% RH max.) with no icing or condensation
Ambient operating humidity	35% to 85% (at 5 to 35°C)
Service life	100,000 operations min.
Weight	Approx. 0.20 g

Note: Data shown are of initial value.

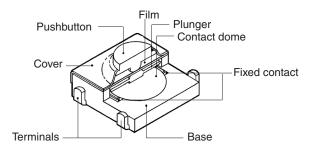
Operating Characteristics

Characteristics	Standard (B3SN)	Gold-plated (B3SN-G)
Operating force (OF)	$160\pm50~g$	$180 \pm 60 \text{ g}$
Release force (RF) min. 30 g		
Pretravel (PT)	$0.25\pm0.15\text{ mm}$	

Operating Force vs. Stroke (typical example)



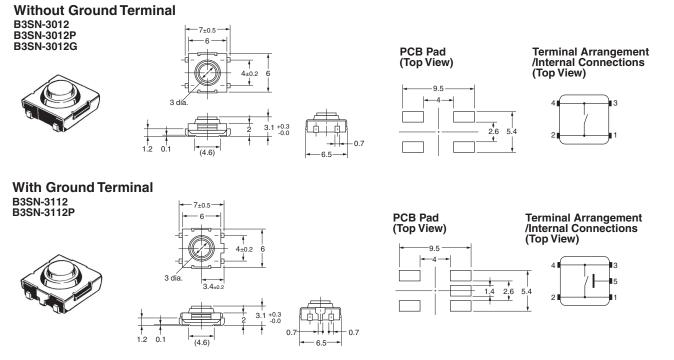
■ Construction



Dimensions

Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ± 0.4 mm applies to all dimensions.

2. Terminal numbers are not indicated on this switch. With the switch turned over so that the logo mark "OMRON" is visible on the upper part of the rear side of the switch base, the terminal on the right of the logo mark is numbered "1" and that on the bottom right is "3." Accordingly, two terminals on the left side are numbered "2" and "4" respectively.



Precautions

Be sure to read the precautions common to all Tactile Switches, contained in the Technical User's Guide, "Tactile Switches, Technical Information" for correct use.

Omron Electronic Components, LLC

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