OMRON

Tactile Switch **B3S**

Surface Mount Tactile Switch for High-Density Packaging

- Sealed construction conforming to IP67 (IEC-60529) provides high contact reliability in locations exposed to dust or water (*Excluding the terminal section)
- Surface-mounting terminals for high-density mounting
- Ground terminal available to protect against static electricity
- Available in embossed taping packages for automatic insertion
- RoHS Compliant



Ordering Information

		Model											
		Without gro	und terminal	With ground terminal									
Switch height	Operating force	Bags (100 per bag)	Embossed Tape (1,000 per reel)	Bags (100 per bag)	Embossed Tape (1,000 per reel)								
4.3	General-purpose: 160 g	B3S-1000	B3S-1000P	B3S-1100	B3S-1100P								
	High-force: 230 g	B3S-1002	B3S-1002P	B3S-1102	B3S-1102P								

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

Important Note: Switches cannot be water-washed.

Specifications

Characteristics

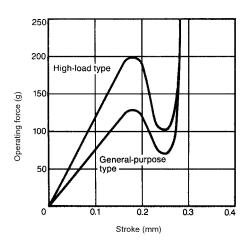
Contact form		SPST-NO						
Switching capacity		1 to 50 mA, 5 to 24 VDC (resistive load)						
Contact resistance		100 mΩ max. (rated: 1 mA, 5 VDC)						
Insulation resistance		100 MΩ min. (at 250 VDC)						
Dielectric strength		500 VAC, 50/60 Hz for 1 minute						
Bounce time		5 ms max.						
Vibration resistance		Malfunction: 10 to 55 Hz, 1.5-mm double amplitude						
Shock resistance		Destruction: 1,000 m/s ² (approx. 100 G) max. Malfunction: 100 m/s ² (approx. 10 G) max.						
Ambient operating tempera	ature	-25° to 70°C (at 60% RH max.) with no icing or condensation						
Ambient operating humidit	ty	35% to 85% (at 5 to 30°C)						
Service life	General-purpose type	500,000 operations min.						
	High-force type	300,000 operations min.						
Weight		Approx. 0.30 g						

Note: Data shown are of initial value.

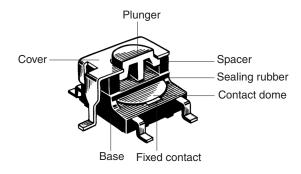
Operating Characteristics

Characteristics	General-purpose	High-force						
Operating force (OF) max.	160 g	230 g						
Release force (RF) min.	20 g	50 g						
Pretravel (PT)	0.25 ^{+ 0.2} / _{-0.1} mm							

Operating Force vs. Stroke (Typical Example)



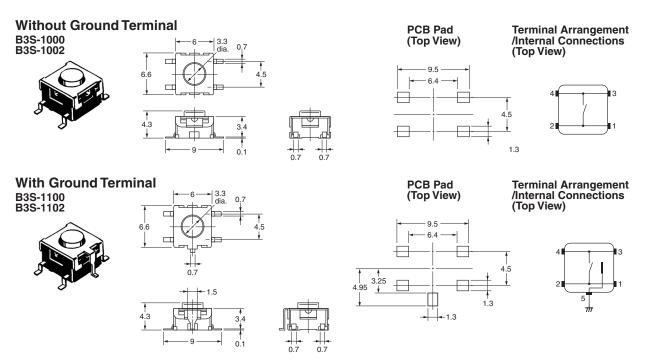
Construction



Dimensions

Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of \pm 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.

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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Cat. No. X303-E-1

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Specifications subject to change without notice

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