Surface-mounting Tactile Switch for High-density Packaging

- ROHS compliant.
- Dust-sealed construction provides high reliability in locations exposed to dust.
- SMD Tactile Switch ideal for high-density mounting.
- Sealed construction conforming to IP64 (IEC-529). Can be washed after soldering.
- Ground terminal available to protect against static electricity.



Ordering Information -

6 x 6 mm Type B3S-1000

Operating force (OF)		Height	Without ground terminal		With ground terminal	
			Bags (100 Switches)	Embossed tape (1,000 Switches)	Bags (100 Switches)	Embossed tape (1,000 Switches)
Standard-force	1.57 N {160 gf}	4.3 mm	B3S-1000	B3S-1000P	B3S-1100	B3S-1100P
High-force	2.25 N {230 gf}		B3S-1002	B3S-1002P	B3S-1102	B3S-1102P

Note: Switches in bags must be ordered in units of 100 Switches, and Switches on embossed tape must be ordered in units of 3,000 Switches.

Specifications -

■ Ratings/Characteristics

Switching capacity	5 to 24 VDC, 1 to 50 mA (resistive load)			
Insulation voltage	30 VDC			
Ambient temperature	Operating: -25°C to 70°C (with no icing)			
Ambient humidity	Operating: 35% to 85%			
Contact configuration	SPST-NO			
Contact resistance	100 mΩ max. (initial value) (rated: 1 mA, 5 VDC)			
Insulation resistance	100 MΩ min. (at 250 VDC)			
Dielectric strength	500 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/s² {approx. 100G} max. Malfunction: 100 m/s² {approx. 10G} max.			
Life expectancy	Standard force models (1.57 N): 500,000 operations min. High-force models (2.25 N): 300,000 operations min.			
Weight	Approx. 0.3 g			

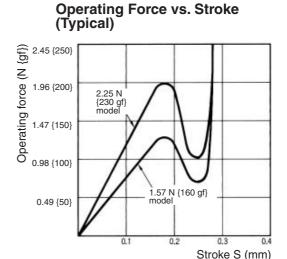
■ Operating Characteristics

Item	B3S-1□00	B3S-1□02
Operating force (OF)	1.57 N {160 gf} max.	2.25 N {230 gf} max.
Releasing force (RF)	0.2 N {20 gf} min.	0.49 N {50 gf} min.
Pretravel (PT)	0.25 ^{+0.2} / _{-0.1} mm	

Nomenclature

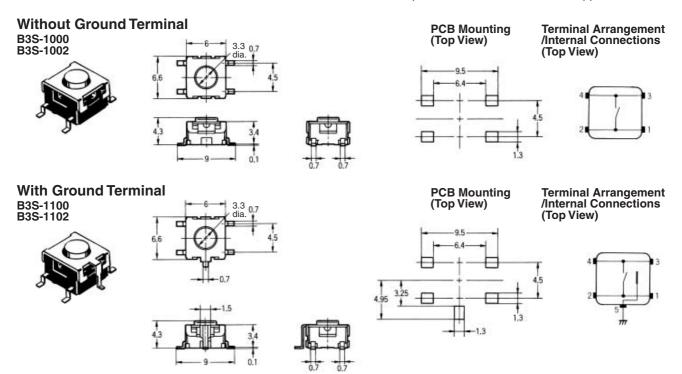
Cover Spacer Sealing rubber Contact dome Base Fixed contact

Engineering Data -



Dimensions

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



ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.