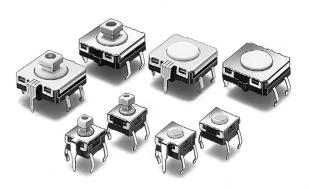
OMRON Sealed Tactile Switch

B3W

Interchangeable with B3F-series Switches, with Sealed Construction to Ensure Highly Reliable Operation

- Sealed construction conforming to IP67 (IEC-60529) provides high reliability in locations exposed to dust or water. (* Excluding the terminal section.)
- Thin, compact in both 6 × 6 mm and 12 × 12 mm sizes.
- Available with ground terminals for protection against static electricity.
- Projected plunger types that allow the installation of B32-series Special Key Tops are available.

RoHS Compliant (Refer to page 8 for details.)

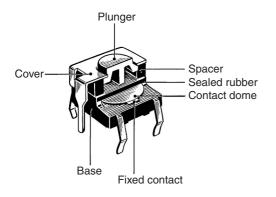


Ordering Information

Туре	Plunger Flat type	Height 4.3 mm	Operating force (OF)		Bags (in units of 100 Switches)	
					Without ground terminal	With ground terminal
6 × 6 mm B3W-1000			Standard force	1.57 N {160 gf}	B3W-1000	B3W-1100
			High-force	2.26 N {230 gf}	B3W-1002	B3W-1102
	Projected type	7.3 mm	Standard force	1.57 N {160 gf}	B3W-1050	B3W-1150
			High-force	2.26 N {230 gf}	B3W-1052	B3W-1152
12 × 12 mm B3W-4000	Flat type	4.3 mm	Standard force	1.96 N {200 gf}	B3W-4000	B3W-4100
	The second s		High-force	3.43 N {350 gf}	B3W-4005	B3W-4105
	Projected type	7.3 mm	Standard force	1.96 N {200 gf}	B3W-4050	B3W-4150
			High-force	3.43 N {350 gf}	B3W-4055	B3W-4155

Note: Orders must be made in units of 100 pieces (quantity per bag).

Nomenclature



Specifications

Ratings/Characteristics

Switching capacity	1 to 50 mA, 5 to 24 VDC (resistive load)			
Ambient operating temperature	-25°C to 70°C at 60% max. humidity (with no icing or condensation)			
Ambient operating humidity	35% to 85% (at 5 to 35°C)			
Contact configuration	SPST-NO			
Contact resistance	100 m Ω 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/s ² {approx. 100 G} max.			
	Malfunction: 100 m/s ² {approx. 10 G} max.			
Life expectancy	B3W-1000: 1.57 N (standard force):1,000,000 operations min. 2.26 N (high-force):300,000 operations min.			
	B3W-4000: 1.96 N (standard force):3,000,000 operations min. 3.43 N (high-force):1,000,000 operations min.			
Weight	6 × 6 mm: approx. 0.3 g, 12 × 12: approx. 1 g			

Operating Characteristics

Item	B3W-1000		B3W-4000		
	1.57 N	2.26 N	1.96 N	3.43 N	
Operating force (OF)	1.57 N {160 gf} max.	2.26 N {230 gf} max.	1.96 N {200 gf} max.	3.43 N {350 gf} max.	
Releasing force (RF)	0.2 N {20 gf} min.	0.49 N {50 gf} min.	0.29 N {30 gf} min.	0.49 N {50 gf} min.	
Pretravel (PT)	0.25 ^{+0.2} / _{-0.1} mm		0.3 ^{+0.2} / _{-0.1} mm		

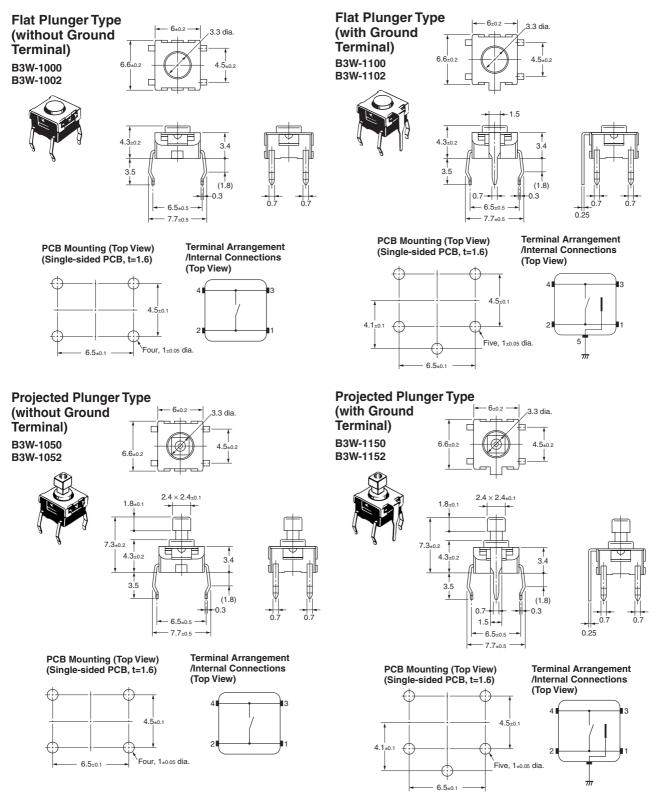
B3W

Dimensions

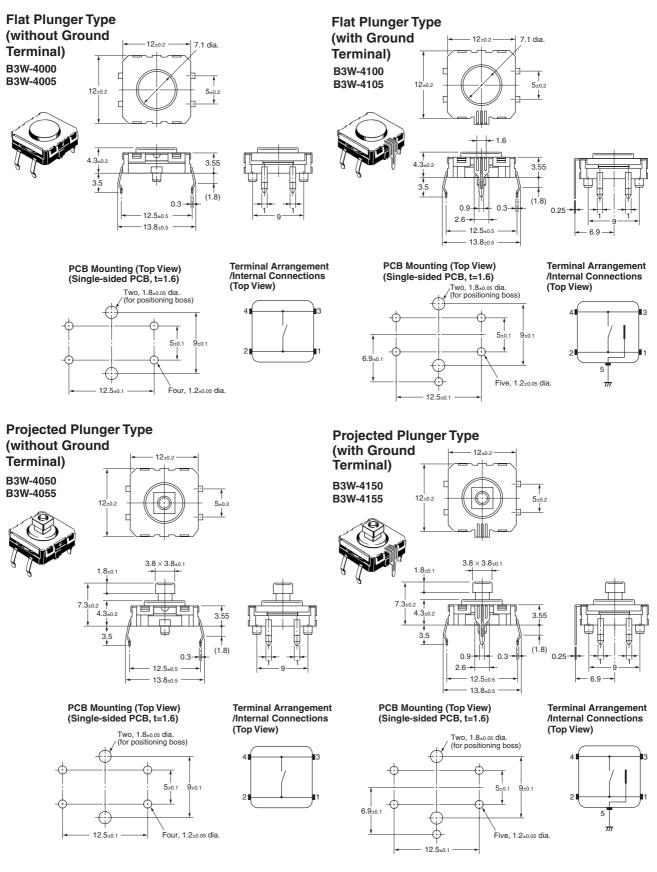
- Note: 1. All units are in millimeters unless otherwise indicated. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
 - 2. No terminal numbers are indicated on the Switches. The numbers used for terminals in the following graphics are indicated in the "Bottom View" diagram below. In this diagram, the Switch is rotated so that the terminals are on the right and left-hand sides, and the OMRON logo appears the right way up.



■ 6 × 6 mm Models



■ 12 × 12 mm Models



Key Tops

B32-series Special Key Tops are available for projected plunger models. Refer to page 42 for details.

Precautions

Be sure to read the precautions common to all Tactile Switches on pages 5 to 7 for correct use.

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

Cat. No. A075-E1-05A