

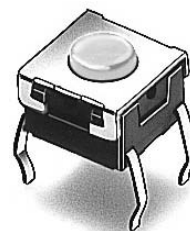
B3W-AQ

Sealed Tactile Switch

Through-hole-mounting Switches That Are Mounting-compatible with B3F Series. Sealed Structure for High Reliability

- Sealed construction conforming to IP67 (IEC-60529) provides high reliability in locations exposed to dust or water.
(* Excluding the terminal section.)


RoHS Compliant



List of Models

Due to the idiosyncrasies of the automotive parts industry, a business decision is required on individual items to determine when to start supply. Contact your OMRON representative for information on individual models.

6 × 6 mm Models

Type	Contact material	Plunger	Height	Operating force (OF)	Plunger color	Bags	
						Without ground terminal	Minimum packing unit
B3W-1000 Series	Silver plated	Flat type 	4.3 mm	2.26 N {230 gf} max.	Yellow	B3W-1002-AQ	100 pcs

Note: Bulk Packaged, 100 switches per bag. Order in multiples of the package quantity.

Ratings/Characteristics

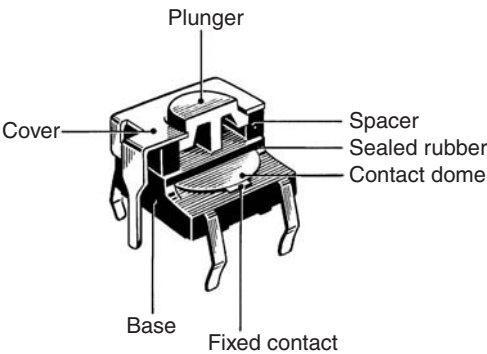
Rating (resistive load)	1 to 50 mA, 3 to 24 VDC
Minimum applicable load (reference value)	10 μ A at 1 VDC (resistive load)
Ambient operating temperature	-25°C to +70°C at 60%RH max. (with no icing or condensation)
Ambient operating humidity	35% to 85% (at +5 to +35°C)
Contact form	SPST-NO
Contact resistance (initial value)	100 m Ω max.
Insulation resistance	100 M Ω min. (at 250 VDC with insulation tester)
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.
Durability	2.26 N (high-force):300,000 operations min.
Weight	approx. 0.3 g
Degree of protection	IEC IP67
Washing	Possible

Operating Characteristics

6 × 6 mm Models

Item	Type	B3W-1000 series
	Operating force (OF)	2.26 N
	Model	B3W-1□□2-AQ
Operating force (OF)	2.26 N {230 gf} max.	
Releasing force (RF)	0.49 N {50 gf} min.	
Pretravel (PT)	0.25 ^{+0.2} / _{-0.1} mm	

Model Structure



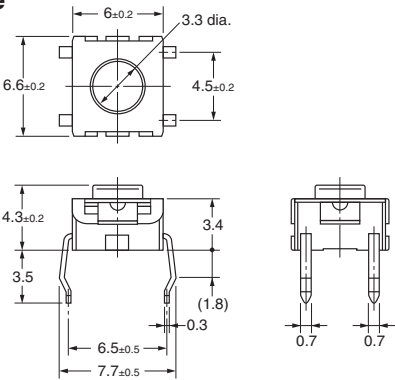
Dimensions (Unit: mm)

Note: 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.

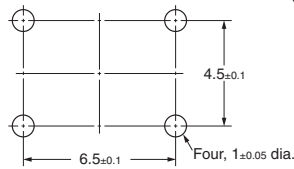
(Bottom View)

■ 6 × 6 mm Models

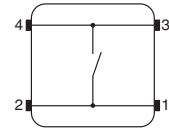
Flat Plunger Type
(without Ground Terminal)
B3W-1002-AQ



PCB Processing Dimensions
(Reference Only) (Top View)
(PCB thickness, t=1.6)



Terminal Arrangement
/Internal Connections
(Top View)



Note: Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions. No terminal numbers are indicated on the Switches.

Precautions

Please refer to "Safety Precautions for All Tactile Switches" on page 22 for correct use.