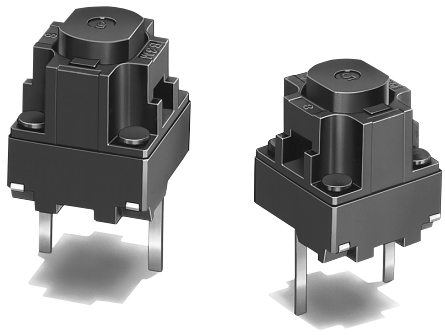
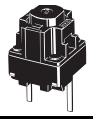
Tactile Switch
B3M

Designed for a Long Stroke and Positive Click

- Long stroke of 0.85 mm provides radically improved operability.
- Light touch with a minimum overstroke of 0.25 mm.
- Improved reliability with a service life of 2,000,000 operations.
- RoHS Compliant.



Ordering Information

Size	Switch height	Operating force (OF)	Model
6 x 6 mm type 	7.3	70 ± 20 gf	**B3M-6009**

Important Note: Switches cannot be water-washed.

Specifications

■ Characteristics

Contact form	SPST-NO
Switching capacity	1 to 50 mA, 5 to 12 VDC (resistive load)
Contact resistance	500 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	Malfunction: 100 m/s^2 max. (approx. 10 G max.)
Life expectancy	2,000,000 operations min.
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)
Weight	Approx. 0.27 g

■ Operating Characteristics

Operating force (OF)	70 ± 20 gf
Releasing force (RF min.)	20 gf min.
Pretravel (PT)	0.5 mm max.
Overtravel (OT)	0.2 mm min.

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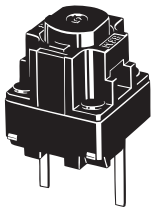
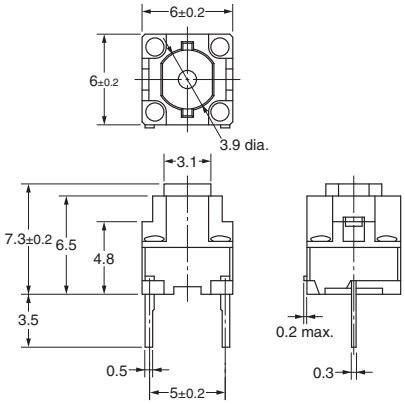
Dimensions

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

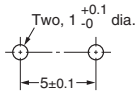
2. Terminal numbers are not indicated on this switch. With the switch turned over so that the logo mark “OMRON” is visible on the upper part of the rear side of the switch base, the terminal on the top of the logo mark is numbered “1” and that on the bottom is “2.”

■ B3M-6009

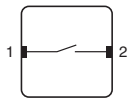




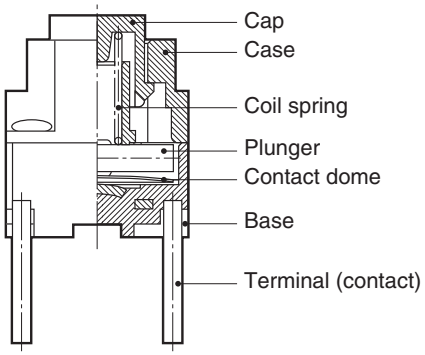
PCB Mounting (Top View)
(Single-sided PCB, t=1.6)



Terminal Arrangement
/Internal Connections
(Top View)



■ Construction



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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Cat. No. X303-E-1 11/10 Specifications subject to change without notice Printed in USA

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