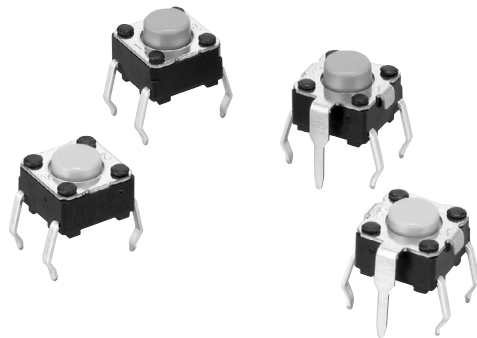


Stable Contact and Insulation Properties over Long-term Application in Severe Environments

- Gold-plated contacts for resistance against corrosive gas. Ensures stable contact over long-term application even for microloads.
- OMRON's unique circular contact action ensures a high level of resistance to foreign matter.
- Insulation fault prevention for ion migration. (See note.)

Note: Ion migration is the movement of metal in terminals and contacts to the opposite pole under the application of voltage at high humidity. Ion migration occurs more readily with silver plating.



NEW

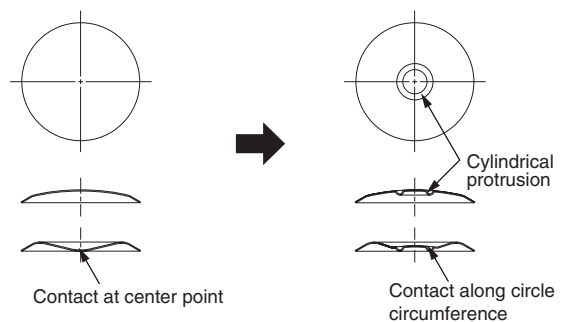
Structure



Circular Contact

Foreign particles entering below the reversing spring will tend to collect in the center when the switch is pressed. Therefore, poor contact occurs easily in traditional reversing springs, which provide contact only at the center point.

The circular contact construction provides contact along the circumference of a circle, thus preventing poor contact by avoiding the center point.



Ordering Information

Type	Plunger	Height	Form of shipment Operating force	Without ground terminal	With ground terminal
				Bags (100 Switches)	
6 × 6 mm switches with gold plating	Flat	4.3 mm	1.76 N	B3F-1002-G	B3F-1102-G
		5.0 mm		B3F-1022-G	B3F-1122-G

Note: The minimum order is 100 Switches. Order in multiples of the minimum order.

Ratings/Characteristics

Switching capacity	100 μ A to 50 mA, 5 to 24 VDC (resistive load)
Ambient temperature	-25°C to 70°C (with no icing)
Ambient humidity	35% to 85%
Contact form	SPST-NO (normally open contact)
Contact resistance	100 m Ω max. (initial value) (rated: 100 μ A, 5 VDC)
Insulation resistance	100 M Ω 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 for 30 to 60 s
Shock resistance	Destruction: 1,000 m/s ² max.
Life expectancy	300,000 operations min.
Weight	Approx. 0.25 g

Operating Characteristics

Operating force (OF)	1.76 \pm 0.49 N
Releasing force (RF)	0.49 N min.
Pretravel (PT)	0.25 ^{+0.2} / _{-0.1} mm

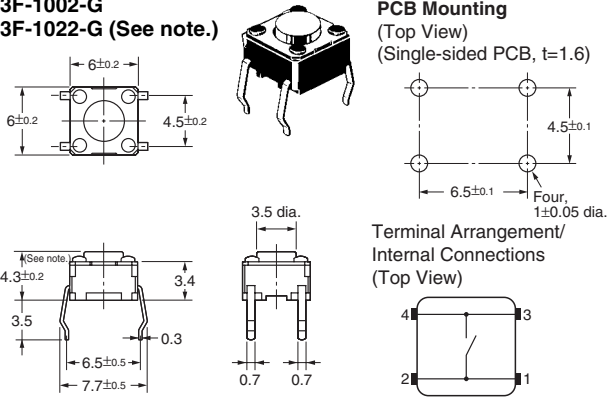
Dimensions

Note: No terminal numbers are indicated on the Switches. The terminal numbers are indicated in the Bottom View diagram on the right. In this diagram, the Switch is rotated so that the OMRON logo appears the right way up.



Standard, Flat Plunger Type (without Ground Terminal)

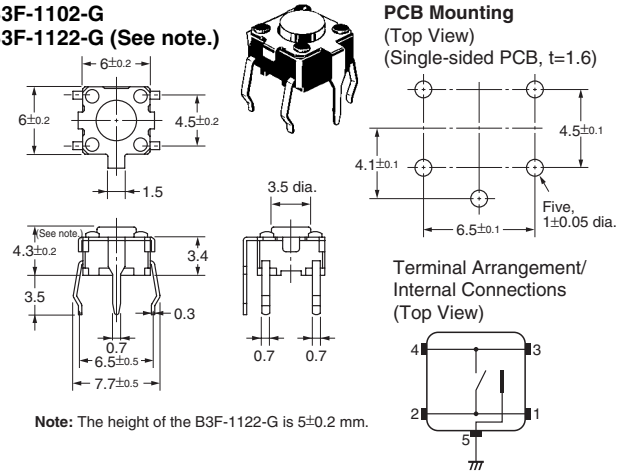
B3F-1002-G
B3F-1022-G (See note.)



Note: The height of the B3F-1022-G is 5 \pm 0.2 mm.

Standard, Flat Plunger Type (with Ground Terminal)

B3F-1102-G
B3F-1122-G (See note.)



Note: The height of the B3F-1122-G is 5 \pm 0.2 mm.

Precautions

■ Correct Use

Note: Be sure to read the *Tactile Switches* general catalog (X037) for general precautions before using the Tactile Switches.

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. A161-E1-01 In the interest of product improvement, specifications are subject to change without notice.

OMRON Corporation

Electronic Components Company

Electronic & Mechanical Components Division H.Q.

Manual Switch Department

Shiokoji Horikawa, Shimogyo-ku,

Kyoto, 600-8530 Japan

Tel: (81)75-344-7096/Fax: (81)75-344-7049

Printed in Japan