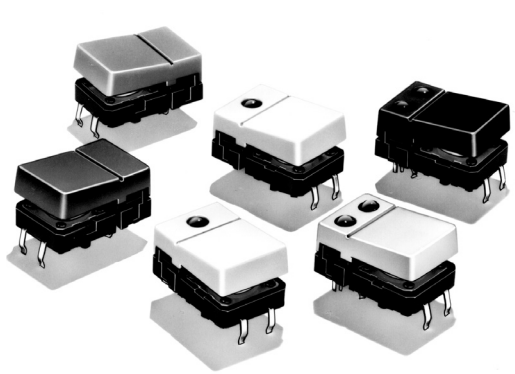
Tactile Switch (Hinged Type)
B3J

Hinged Design Developed through Ergonomics

- Quick, superior snap action through hook-type hinge construction.
- Available with 1 or 2 LEDs or without LEDs.
- The hinge button is available in a wide variety of colors (five standard colors).
- RoHS Compliant.



Ordering Information

Color of hinged button	No LED	One LED			Two LEDs (left and right)		
		Red	Yellow	Green	Red/Yellow	Red/Green	Yellow/Green
Light gray	**B3J-1000**	**B3J-2000**	**B3J-3000**	**B3J-4000**	**B3J-5000**	**B3J-6000**	**B3J-7000**
Black	**B3J-1100**	**B3J-2100**	**B3J-3100**	**B3J-4100**	**B3J-5100**	**B3J-6100**	**B3J-7100**
Orange	**B3J-1200**	**B3J-2200**	**B3J-3200**	**B3J-4200**	**B3J-5200**	**B3J-6200**	**B3J-7200**
Yellow	**B3J-1300**	**B3J-2300**	**B3J-3300**	**B3J-4300**	**B3J-5300**	**B3J-6300**	**B3J-7300**
Blue	**B3J-1400**	**B3J-2400**	**B3J-3400**	**B3J-4400**	**B3J-5400**	**B3J-6400**	**B3J-7400**

Specifications

■ Ratings/Characteristics

Contact form	SPST-NO
Switching capacity	1 to 50 mA, 5 to 24 VDC (resistive load)
Contact resistance	100 mΩ max. (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	3,000,000 operations min.
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)
Weight	Approx. 1.5 to 1.7 g

■ Operating Characteristics

Operating force (OF)	1.27±0.49 N (130 ± 50 gf)
Releasing force (RF)	0.29 N (30 gf) min.
Pretravel (PT)	$0.3\ ^{+0.2}/_{-0.1}$ mm

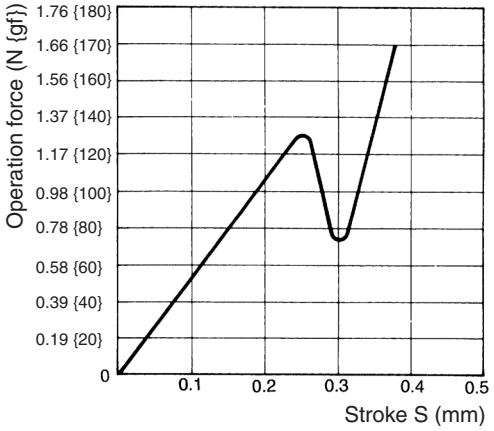
■ Built-in LED Performance

Item		Red	Yellow	Green
Forward voltage V_F	Standard value (V)	2.0	2.0	2.1
Forward current I_F	Standard value (mA)	20	20	20
Permissible loss P	Absolute maximum value (mW)	84	84	84
Reverse voltage V_R	Absolute maximum value (V)	5	5	5

Note: Since the built-in LED does not contain any limiting resistors, externally connect limiting resistors within the limits shown in the above table.

Engineering Data

Operating Force vs. Stroke (Typical)

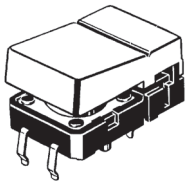


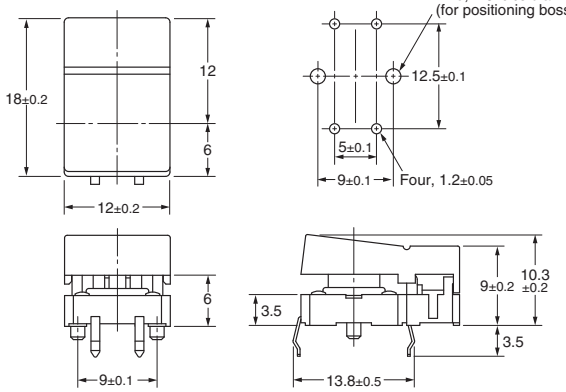
Dimensions

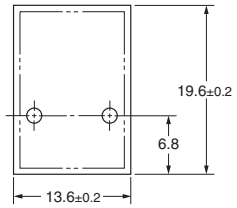
All units are in millimeters unless otherwise indicated. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.

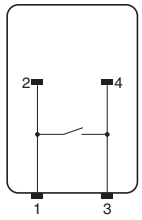
Types with no LED

B3J-1□00



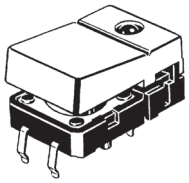


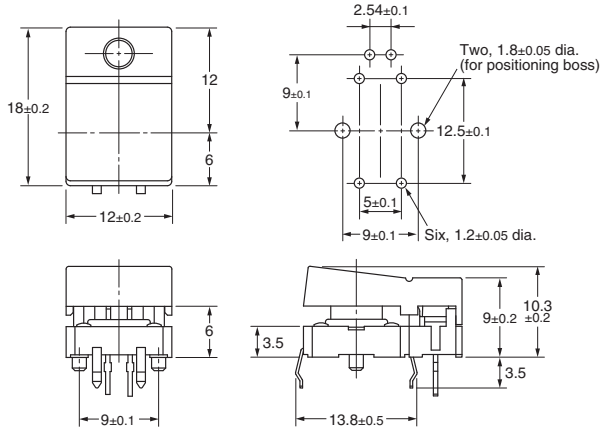


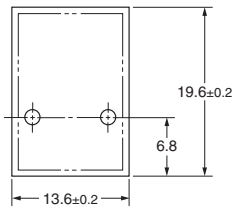


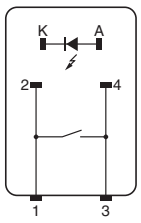
1 LED Types

B3J-2□00
B3J-3□00
B3J-4□00



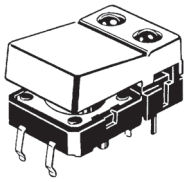


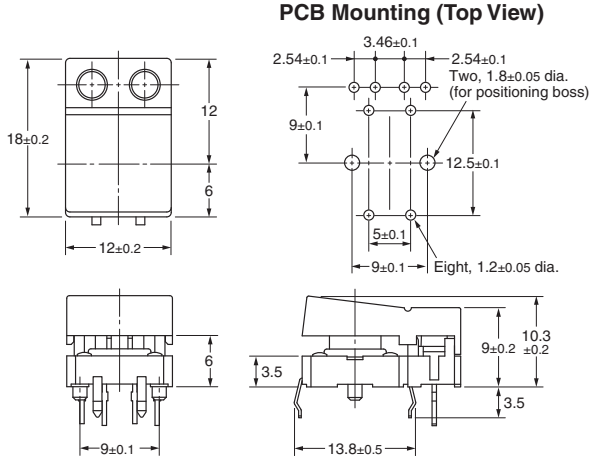


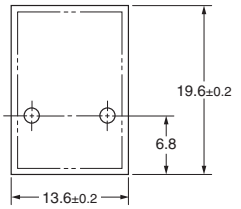


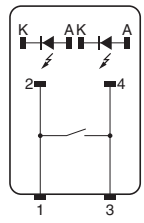
2 LED Types

B3J-5□00
B3J-6□00
B3J-7□00









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

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