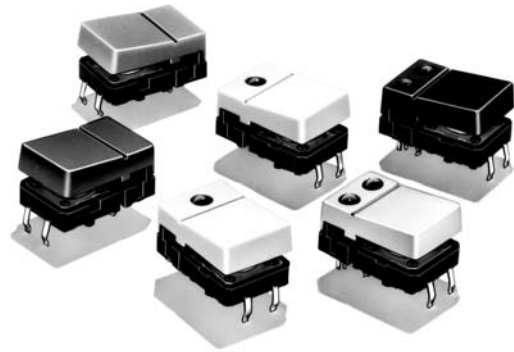


Hinged Tactile Switch

B3J

Through-hole-mounting Switches with Hinges for a Sharp Snap Action

- 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).



■ List of Models

Operation type	Contact material	Operating force (OF)	Color of hinged button	Box	
				Model	Minimum packing unit
Non-lighted: B3J-1000 Series	Silver plated	1.27 N {130 gf}	Ivory	B3J-1000	300 pcs
			Black	B3J-1100	
			Orange	B3J-1200	
			Yellow	B3J-1300	
			Blue	B3J-1400	

Operation type	Contact material	Operating force (OF)	Color of hinged button	Box			
				LED color			Minimum packing unit
				Red	Yellow	Green	
One LED: B3J-2000 Series B3J-3000 Series B3J-4000 Series	Silver plated	1.27 N {130 gf}	Ivory	B3J-2000	B3J-3000	B3J-4000	300 pcs
			Black	B3J-2100	B3J-3100	B3J-4100	
			Orange	B3J-2200	B3J-3200	B3J-4200	
			Yellow	B3J-2300	B3J-3300	B3J-4300	
			Blue	B3J-2400	B3J-3400	B3J-4400	

Operation type	Contact material	Operating force (OF)	Color of hinged button	Box			Minimum packing unit
				LED color			
				Red/Yellow	Red/Green	Yellow/Green	
Two LEDs: B3J-5000 Series B3J-6000 Series B3J-7000 Series	Silver plated	1.27 N {130 gf}	Ivory	B3J-5000	B3J-6000	B3J-7000	300 pcs
			Black	B3J-5100	B3J-6100	B3J-7100	
			Orange	B3J-5200	B3J-6200	B3J-7200	
			Yellow	B3J-5300	B3J-6300	B3J-7300	
			Blue	B3J-5400	B3J-6400	B3J-7400	

■ 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. 100G} max. Malfunction: 100 m/s ² {approx. 10G} max.
Durability	3,000,000 operations min.
Weight	Approx. 1.5 to 1.7 g
Degree of protection	IEC IP00
Washing	Not possible

■ Operating Characteristics

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

■ LED Specifications

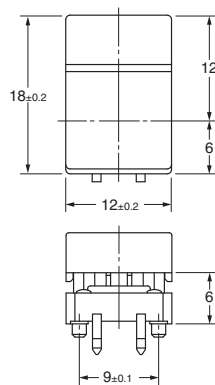
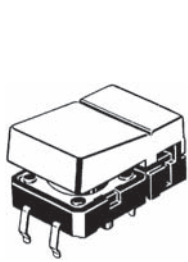
Item		Red	Yellow	Green
Forward voltage VF	Standard value (V)	2.0	2.0	2.1
Forward current IF	Standard value (mA)	20	20	20
Permissible loss P	Absolute maximum value (mW)	84	84	84
Reverse voltage VR	Absolute maximum value (V)	5	5	5

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

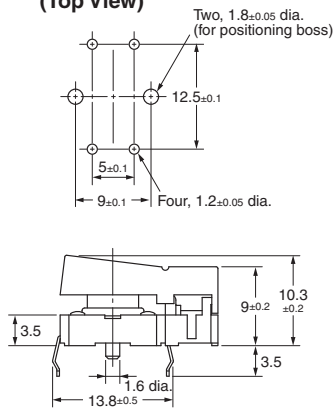
■ Dimensions (Unit: mm)

Types with no LED

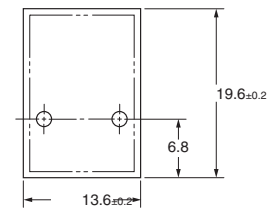
B3J-1□00



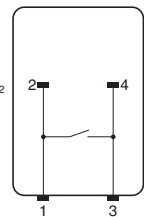
PCB Processing Dimensions (Reference Only) (Top View)



Panel Cutout



Terminal Arrangement /Internal Connections (Top View)

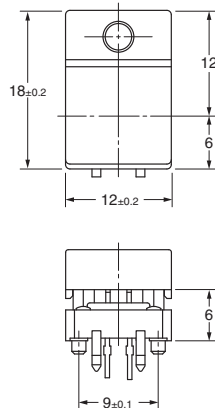
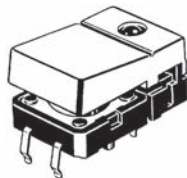


1 LED Types

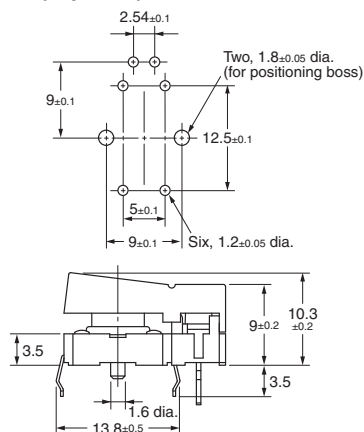
B3J-2□00

B3J-3□00

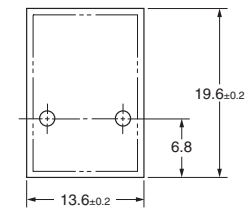
B3J-4□00



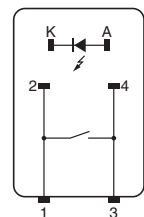
PCB Processing Dimensions (Reference Only) (Top View)



Panel Cutout



Terminal Arrangement /Internal Connections (Top View)

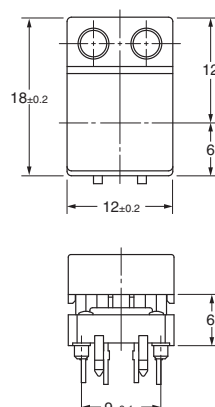
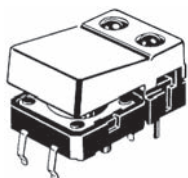


2 LED Types

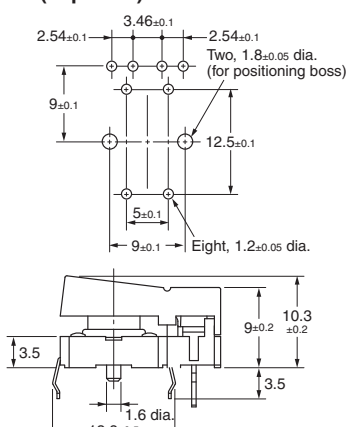
B3J-5□00

B3J-6□00

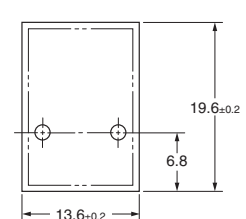
B3J-7□00



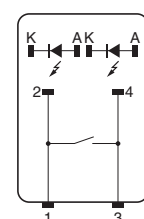
PCB Processing Dimensions (Reference Only) (Top View)



Panel Cutout



Terminal Arrangement /Internal Connections (Top View)



Note: Unless otherwise specified, a tolerance of ± 0.4 mm applies to all dimensions.

■ Precautions

Be sure to read the safety precautions common to all Tactile Switches for correct use.

Please check each region's Terms & Conditions by region website.

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