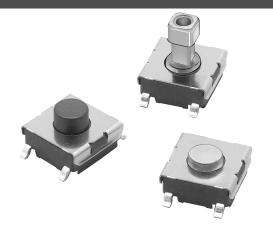
OMRON

Tactile Switch (SMD)

Surface-mounting Switches Ideal for High-density Mounting

- Tape packing style also available
- Allows reflow soldering
- 3 actuator heights for design flexibility; Projected plunger versions allow installation of B32-series keytops
- RoHS Compliant



Ordering Information

		Item	Model								
Туре	Plunger	Height	Operating force	e (OF)	Bag pac	kaging	Embossed tape packaging				
Type	Thanger	neight	operating fore	c (01)		(qty/bag)		(qty/reel)			
Standard 6 x 6 mm	Flat	3.1 mm	General-purpose:	100 gf	B3FS-1000		B3FS-1000P	0.000			
l I			High-force:	150 gf	B3FS-1002		B3FS-1002P	3,000			
	Flat	4.3 mm	General-purpose:	100 gf	B3FS-1010		B3FS-1010P				
			High-force:	150 gf	B3FS-1012	100	B3FS-1012P	_			
	Projected	7.3 mm	General-purpose:	100 gf	B3FS-1050	_	B3FS-1050P	1,000			
			High-force:	150 gf	B3FS-1052	_	B3FS-1052P	-			

Note: Order in multiples of the quantities given for each package

Important Note: Switches cannot be water-washed.

Specifications

Characteristics

Contact form		SPST-NO							
Switching capacity		50 mA, 24 VDC (resistive load)							
Contact resistance		100 mΩ max. (rated: 1 mA, 5 VDC)							
Insulation resistance		100 MΩ min. (at 100 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		Destruction: 1,000 m/s ² max. (approx. 100G max.) Malfunction: 100 m/s ² max. (approx. 10G max.)							
Life expectancy	General-purpose	1,000,000 operations min.							
	High-force type	300,000 operations min.							
Ambient operating temperatur	e	-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. 0.2 g							

Note: Data shown are of initial value

Operating Characteristics

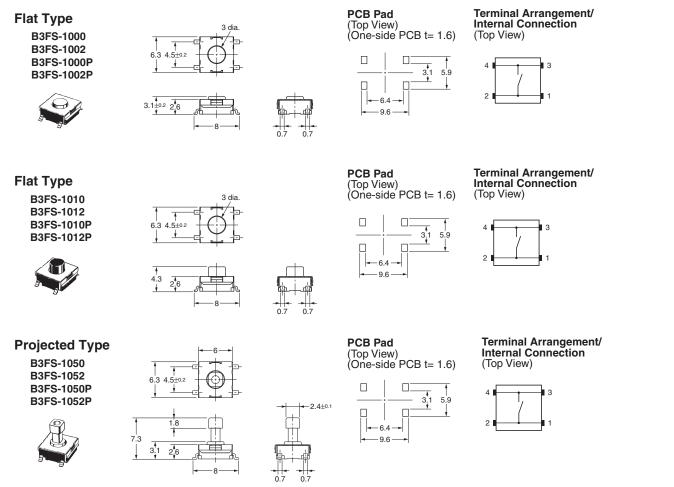
Characteristics	B3FS-1000 series									
	General-purpose	High-force								
Operating force (OF)	$100\pm30~gf$	$150\pm50~\text{gf}$								
Releasing force (RF)	20 gf	50 gf								
Pretravel (PT)	0.25 ^{+0.2} / _{-0.1} mm									

Accessories

See "B32" Tactile Switch Key Top data sheet for keycaps that fit projected plunger B3FS models.

Dimensions

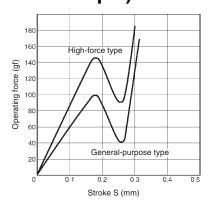
- Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of \pm 0.4 mm applies to all dimensions.
 - 2. Terminal numbers are not indicated on this switch. With the switch turned over so that the logo mark "OMRON" is visible on the upper part of the rear side of the switch base, the terminal on the right of the logo mark is numbered "1" and that on the bottom right is "3." Accordingly, two terminals on the left side are numbered "2" and "4" respectively.



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.

Operating Force vs Stroke (Typical Example)



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