# OMRON

# SMD Tactile Switch B3FS-4

## 12 × 12-mm Surface-mounting Switches for High-density Mounting

- Surface-mounting device of B3F-4000 series.
- Distinctive snapping action and extended mechanical/electrical durability.
- Available in embossed taping packages for automatic mounting.
- B32-series Key Tops mount to models with projected plungers.



## Ordering Information

#### ● List of Models 12 × 12 mm Models

Туре	Contact material	Plunger type	Height	Operating force (OF)	Plunger color	Embossed taping	
						Model	Minimum packing unit
B3FS-4000 Series	Silver plated	Ŷ	4.3 mm	1.47 N	Black	B3FS-4002P	1,000
				2.55 N		B3FS-4005P	
			7.3 mm	1.47 N		B3FS-4052P	- 500
				2.55 N		B3FS-4055P	

Note: Order in multiples of the minimum order unit. Switches are not sold individually.

### Specifications

#### Ratings/Characteristics

Rating (resistive load)	1 to 50 mA, 3 to 24 VDC		
Minimum applicable load (reference value)	10 µA at 1 VDC (resistive load)		
Ambient operating temperature	-25 to +70 degC at 60%RH max. (with no icing or condensation)		
Ambient operating humidity	35 to 85%RH (at +5 to +35 degC)		
Contact configuration	SPST-NO		
Contact resistance (initial value)	100 m $\Omega$ max.		
Insulation resistance	100 M $\Omega$ (at 250 VDC with insulation tester)		
Dielectric strength	500 VAC 50/60 Hz for 1 min		
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude		
Shock resistance	Destruction: 1,000 m/s² {approx. 100 G} max. Malfunction: 100 m/s² {approx. 10 G} max.		
Durability	3,000,000 operations min. (OF: 1.47 N {150 gf}) 1,000,000 operations min. (OF: 2.55 N {260 gf})		
Weight	Approx. 1 g		
Degree of protection	IEC IP00		
Washing	Not possible		

#### • Operating Characteristics

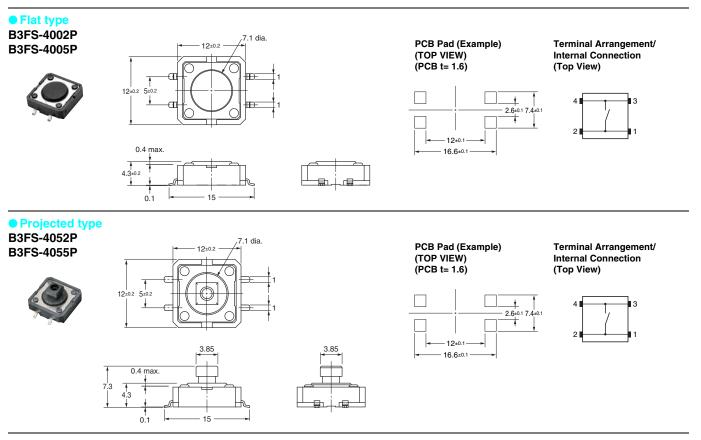
Туре	B3FS-4000 Series		
Operating force (OF)	1.47 N	2.55 N	
Item Model	B3FS-40□2P	B3FS-40□5P	
Operating force (OF)	1.47±0.49 N {150±50 gf}	2.55±0.69 N {260±70 gf}	
Releasing force (RF)	0.15 N {15 gf} min.	0.29 N {30 gf} min.	
Pretravel (PT)	0.25±0.15 mm	0.25±0.15 mm	

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### Dimensions

Note: 1. All units are in millimeters unless otherwise indicated. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
Note: 2. The numbers used for terminals in the following graphics are indicated in the "Bottom View" diagram in the right. In this diagram, the Switch is rotated so that the terminals are on the right and left-hand sides, and the OMRON logo appears the right way up.

2 omron 1 4 3 (BOTTOM VIEW)



## Key Tops

B32-series Key Tops are available for projected plungers. Refer to the Datasheet of B32 for details.

### 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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