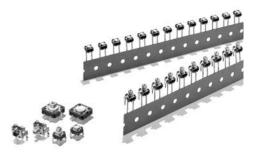
OMRO

A Wide Range of Models: 6 x 6 mm, 12 x 12 mm, Vertical, and High-force.

- ROHS compliant.
- A positive click action plus a long life equal to that of a no-contact switch.
- Radial models (taping specifications) that allow the use of general-purpose radial taping parts insertion machines have been added to the series.

Ordering Information -

Туре	Plunger	Height	Operating force (of)	Bags (100 Switches)		
				Without ground terminal	With ground terminal	
lorizontal	Flat	4.3 mm	0.98 N {100 gf}	B3F-1000	B3F-1100	
B3F-1000)			1.47 N {150 gf}	B3F-1002	B3F-1102	
			2.55 N {260 gf}	B3F-1005	B3F-1105	
	8 1 0		4.9 N {50 gf}	B3F-1006 (See note.)	-	
	ø	5.0 mm	0.98 N {100 gf}	B3F-1020	B3F-1120	
			1.47 N {150 gf}	B3F-1022	B3F-1122	
			2.55 N {260 gf}	B3F-1025	B3F-1125	
			4.9 N {50 gf}	B3F-1026 (See note.)	-	
		5.0 mm (7.5-mm pitch)	0.98 N {100 gf}	-	B3F-1110	
		7.0 mm	0.98 N {100 gf}	B3F-1060 (See note.)	-	
			1.47 N {150 gf}	B3F-1062 (See note.)	-	
		9.5 mm	0.98 N {100 gf}	B3F-1070 (See note.)	-	
			1.47 N {150 gf}	B3F-1072-N (See note.)	-	
			2.55 N {260 gf}	B3F-1075 (See note.)	-	
	Projected	7.3 mm	0.98 N {100 gf}	B3F-1050	B3F-1150	
			1.47 N {150 gf}	B3F-1052	B3F-1152	
			2.55 N {260 gf}	B3F-1055	B3F-1155	
	080		4.9 N {50 gf}	B3F-1056 (See note.)	-	



6 x 6 mm Models

Туре	Plunger	Height	Operating force (of)	Bags (100	Switches)
				Without ground terminal	With ground terminal
Vertical	Flat	3.15 mm	0.98 N {100 gf}	-	B3F-3100
(B3F-3000)			1.47 N {150 gf} - B30 2.55 N {260 gf} - B30 0.98 N {100 gf} - B31 1.47 N {150 gf} - B31	B3F-3102	
-	CI C		2.55 N {260 gf}	-	B3F-3105
		3.85 mm	0.98 N {100 gf}	-	B3F-3120
			1.47 N {150 gf}	-	B3F-3122
			2.55 N {260 gf}	-	B3F-3125
	Projected	6.15 mm	0.98 N {100 gf}	-	B3F-3150
			1.47 N {150 gf}	-	B3F-3152
			2.55 N {260 gf}	-	B3F-3155

Note: Switches are sold in units of 100 Switches. Orders must be made in multiples of 100 (the quantity per bag).

12 x 12 mm Models

Туре	Plunger	Height	Operating force	Bags (100 Switches)		
	or LED colour			Without ground terminal	With ground terminal	
Standard	Flat	4.3 mm	1.27 N {130 gf}	B3F-4000	B3F-4100	
(B3F-4000)			2.55 N {260 gf}	B3F-4005	B3F-4105	
	Projected	7.3 mm	1.27 N {130 gf}	B3F-4050	B3F-4150	
			2.55 N {260 gf}	B3F-4055	B3F-4155	
Long life expectancy (B3F-5000)	Flat	4.3 mm	1.27 N {130 gf}	B3F-5000	B3F-5100	
	Projected	7.3 mm		B3F-5050	B3F-5150	
High reliability gold-plated (B3F-5000)	Flat	4.3 mm	1.27 N {130 gf}	B3F-5001	B3F-5101	
	Projected	7.3 mm		B3F-5051	B3F-5151	

Note: Switches are sold in units of 100 Switches. Orders must be made in multiples of 100 (the quantity per bag).

6 x 6 mm Radial Models (Taping Specifications)

Туре	Plunger	Height	Operating force 0.98 N {100 gf}		Operating force 1.47 N {150 gf}	
			Without ground terminal	With ground terminal	Without ground terminal	With ground terminal
Standard	Flat	4.3 mm	B3F-6000	B3F-6100	B3F-6002	B3F-6106
(B3F-6000)		5.0 mm	B3F-6020	B3F-6120	B3F-6022	B3F-6122
	Projected	7.3 mm	B3F-6050	B3F-6150	B3F-6052	B3F-6152

Note: Switches are sold in units of 1,000 Switches. Orders must be made in multiples of 1,000. Switches are not sold individually.

Accessories (Order Separately)

Special Key Tops are available for projected plunger models.

Specifications -

Rating/Characteristics

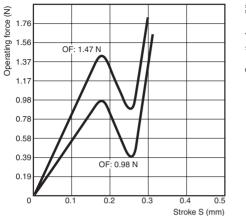
Switching capacity	1 to 50 mA, 5 to 24 VDC (resistive load)			
Ambient temperature	-25°C to 70°C (with no icing)			
Ambient humidity	35% to 85%			
Contact form	SPST-NO			
Contact resistance	100 mΩ max. (initial value) (rated: 1 mA, 5 VDC)			
Insulation resistance	100 MΩ min. (at 250 VDC)			
Dielectric 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/s² {approx. 100G} max. Malfunction: 100 m/s² {approx. 10G} max.			
Life expectancy	B3F-1000, B3F-3000, B3F-6000: 1,000,000 operations min (OF: 0.98 N) (B3F-1070: 500,000 operations min) 300,000 operations min (OF: 1.47 N) 100,000 operations min (OF: 2.55 N) 50,000 operations min (OF: 4.9 N) B3F-4000: 3,000,000 operations min (OF: 1.28 N) 1,000,000 operations min (OF: 2.55 N) B3F-5000: 10,000,000 operations min.			
Weight	6 x 6 mm models: approx. 0.25 g 12 x 12 mm models (standard types): approx. 0.85 g Radial models: approx. 0.25 g			

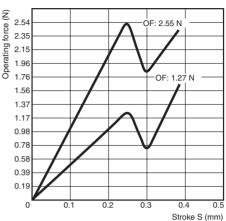
Operating Characteristics

		B3F-1000, B3F-	B3F-4000, B3F-5000				
Operating force (OF)	0.98 N	1.47 N	2.55 N	4.9 N	1.27 N	2.55 N	
	B3F-1 [D] B3F-3 [D] B3F-6 [D]	B3F-1 [2] B3F-3 [2] B3F-6 [2]	B3F-1 [5] B3F-3 [5]	B3F-10 🖾	B3F-4 [0] B3F-5 [0]	B3F-4 □5	
Operating force (OF)	0.98±0.29 N {100±30 gf}	1.47±0.49 N {150±50 gf}	2.55±0.69 N {260±70 gf}	4.9±1. 47N {100±30 gf}	1.27±0.49 N {130±50 gf}	2.55±0.69 N {260±70 gf}	
Relapsing force (RF)	0.2 N {20 gf} min.	0.49 N {50 gf} min.	0.49 N {50 gf} min.	0.7 N {70 gf} min.	0.29 N {30 gf} min.	0.49 N min. {50 gf}	
Pretravel (PT)	0.25* ⁰² /-0.1 mm				0.3 ^{+0.2} / _{-0.1} mm		

Engineering Data -

Operating Force vs. Stroke (Typical) B3F-1000, -3000, -6000





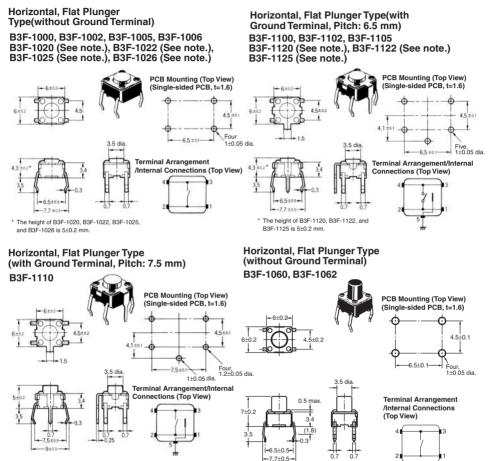
B3F-4000.-5000

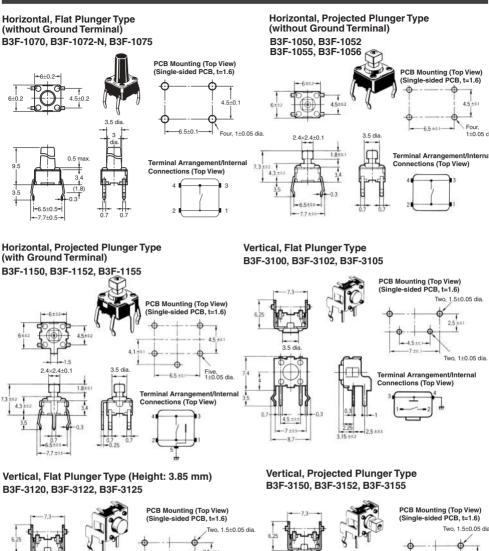
Dimensions

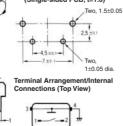
- Note 1. All units are in millimeters unless otherwise indicated. Unless otherwise specified, a tolerance of ±0.4 mm applies to all dimensions.
 - 2. No terminal numbers are indicated on the Switches. The numbers used for terminals in the following graphics are indicated in the "Bottom View" diagram below. 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.

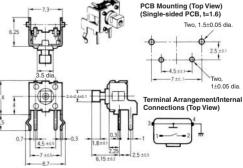


6 x 6 mm Models



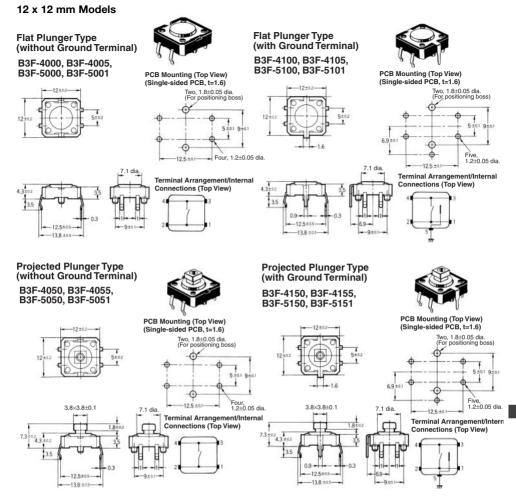




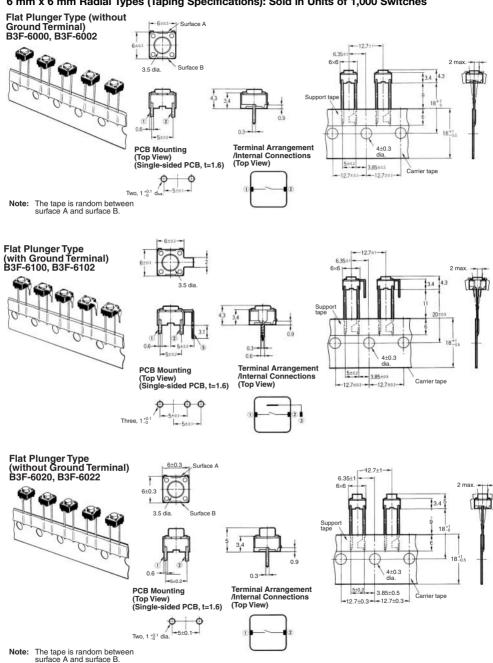


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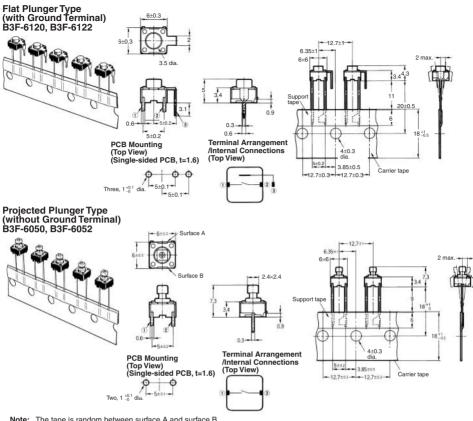


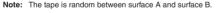
6 mm x 6 mm Radial Types (Taping Specifications): Sold in Units of 1,000 Switches

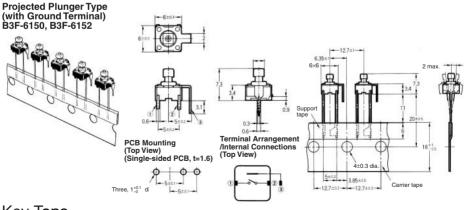


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Key Tops

B32-series Special Key Tops are available for projected plunger models.