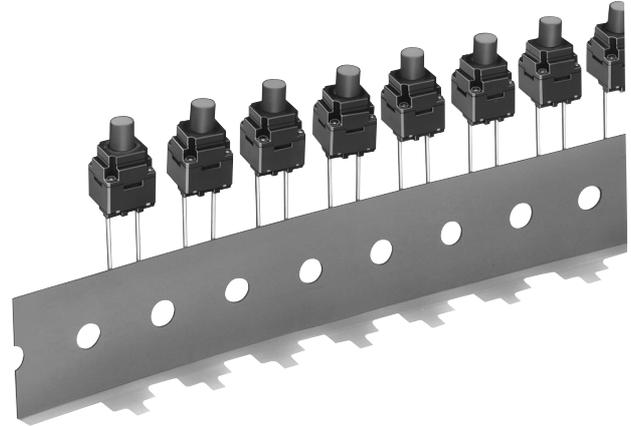# OMRON

Tactile Switch (Double-sealed Type) | B3WN

Double-sealed Construction Ensures Watertight and Dust-tight Performance

■ Sealed construction conforming to IP67 (IEC-529) provides high reliability even in locations exposed to dust or water.

■ As compact as 8 mm x 8 mm.

■ Allows the use of radial-taping part insertion machines.

| RoHS Compliant | (Refer to page 8 for details.)

Ordering Information

■ List of Models

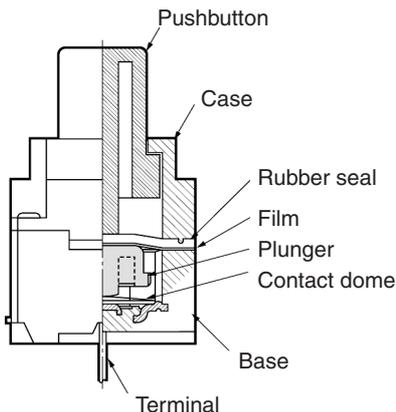| Model	Height	Operating force (OF)	Model without ground terminal	Minimum order unit
	13 mm	1.96 N {200 gf}	B3WN-6002(S)	1,000 Switches

Note: Orders must be made in multiples of the minimum order unit (multiples of 1,000). Switches are not sold individually.
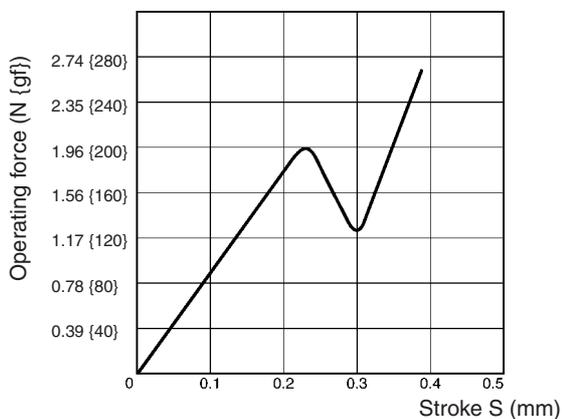
Specifications

■ Ratings/Characteristics

Switching capacity	50 mA, 12 VDC (resistive load)
Ambient temperature	Operating: −25°C to 85°C (with no icing)
Ambient humidity	Operating: 35% to 85%
Contact configuration	SPST-NO
Contact resistance	100 mΩ max. (initial value) (rated: 1 mA, 5 VDC)
Insulation resistance	100 MΩ min. (at 100 VDC)
Dielectric strength	250 VAC, 50/60Hz for 1 min
Bounce time	10 ms max.
Vibration resistance	Malfunction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 784 m/s^2 {approx. 80G} max. Malfunction: 100 m/s^2 {approx. 10G} max.
Life expectancy	100,000 operations min.
Weight	Approx. 0.7 g

Nomenclature

Pushbutton

Case

Rubber seal

Film

Plunger

Contact dome

Base
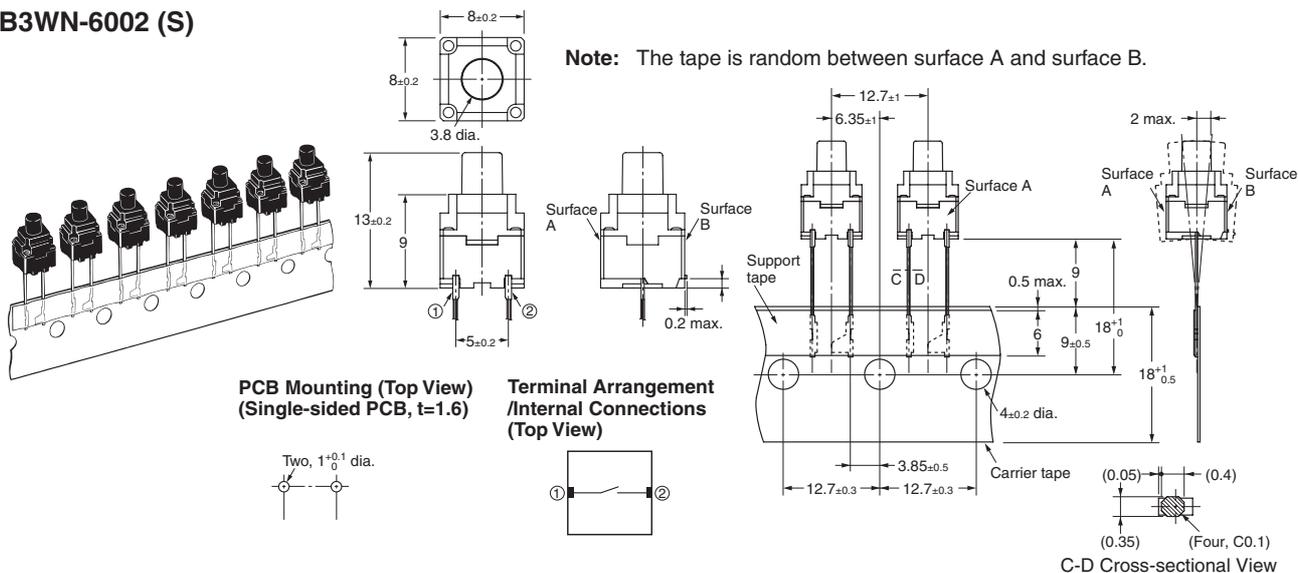
Terminal

Engineering Data

Operating Force vs. Stroke Characteristics
B3WN-6002 (S)

Dimensions

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

B3WN-6002 (S)

Note: The tape is random between surface A and surface B.

8±0.2

8±0.2

3.8 dia.

13±0.2

9

①

②

5±0.2

Surface A

Surface B

0.2 max.

PCB Mounting (Top View)
(Single-sided PCB, t=1.6)

Two, 1+0.1/0 dia.

Terminal Arrangement
/Internal Connections
(Top View)

① ②

12.7±1

6.35±1

Surface A

Support tape

C D

0.5 max.

9

6

9±0.5

18+1/0

18+1/0.5

4±0.2 dia.

Carrier tape

12.7±0.3

3.85±0.5

12.7±0.3

2 max.

Surface A

Surface B

(0.05)

(0.4)

(0.35)

(Four, C0.1)

C-D Cross-sectional View

Operating Characteristics

Item	B3WN-6002 (S)
Operating force (OF)	1.96±0.67 N {200±70 gf}
Releasing force (RF)	0.49 N {50 gf} min.
Pretravel (PT)	$0.3^{+0.2}_{-0.1}$ mm

Precautions

Be sure to read the precautions common to all Tactile Switches on pages 5 to 7 for correct use.

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

Cat. No. A112-E1-03