Tactile Switch B3S

Surface Mount Tactile Switch for High- Density Packaging

- Sealed construction conforming to IP67 (IEC-60529) provides high contact reliability in locations exposed to dust or water (*Excluding the terminal section)
- Surface-mounting terminals for high-density mounting
- Ground terminal available to protect against static electricity
- · Available in embossed taping packages for automatic insertion
- RoHS Compliant



Ordering Information

		Model			
		Without ground terminal		With groun	nd terminal
Switch height	Operating force	Bags (100 per bag)	Embossed Tape (1,000 per reel)	Bags (100 per bag)	Embossed Tape (1,000 per reel)
4.3	General-purpose: 160 g	B3S-1000	B3S-1000P	B3S-1100	B3S-1100P
	High-force: 230 g	B3S-1002	B3S-1002P	B3S-1102	B3S-1102P

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		1 to 50 mA, 5 to 24 VDC (resistive load)	
Contact resistance		100 mΩ max. (rated: 1 mA, 5 VDC)	
Insulation resistance		100 MΩ min. (at 250 VDC)	
Dielectric strength		500 VAC, 50/60 Hz for 1 minute	
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. 100 G) max. Malfunction: 100 m/s² (approx. 10 G) max.	
Ambient operating temperature		-25° to 70°C (at 60% RH max.) with no icing or condensation	
Ambient operating humidity		35% to 85% (at 5 to 30°C)	
Service life	General-purpose type	500,000 operations min.	
	High-force type	300,000 operations min.	
Weight		Approx. 0.30 g	

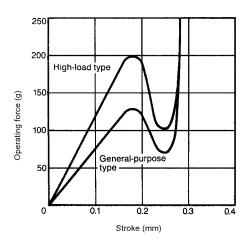
Note: Data shown are of initial value.

■ Operating Characteristics

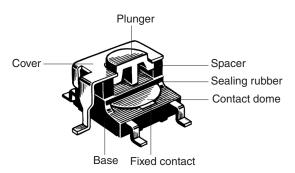
Characteristics	General-purpose	High-force	
Operating force (OF) max.	160 g	230 g	
Release force (RF) min.	20 g	50 g	
Pretravel (PT)	0.25 ^{+ 0.2} / _{-0.1} mm		

Engineering Data

■ Operating Force vs. Stroke (Typical Example)



■ Construction



Dimensions

Note: 1. Unless otherwise specified, all units are in millimeters and a tolerance of ± 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.

With Ground Terminal B3S-1000 B3S-1000 With Ground Terminal B3S-1100 B3

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.

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

Definitions: The words used herein are defined as follows.

Terms: These terms and conditions

(b) Seller: Omron Electronic Components LLC and its subsidiaries

The buyer of Products, including any end user in section III through VI Buyer: (c)

Products: Products and/or services of Seller Including without limitation Including:

Offer: Acceptance: These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these

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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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Cat. No. X303-E-1

11/09

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Printed in USA

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