

EN: This Datasheet is presented by the manufacturer.

Please visit our website for pricing and availability at www.hestore.hu.

Tactile Switch B3S

Surface Mount Tactile Switch for High- Density Packaging

- Sealed construction allows immersion-cleaning IP64 (IEC529) of the PC board with the tactile switches mounted and soldered
- Ground terminal available to protect against static electricity
- Ideal for applications such as audio, office, and communications equipment, measuring instruments, industrial robots, VCRs, TVs, and vending machines
- Tape packaging style also available: contact OMRON for details
- RoHS Compliant



Ordering Information

| Switch height x | o processing to the | Part number | | | |
|-----------------|------------------------|-------------------------|---------------|----------------------|---------------|
| pitch | | Without ground terminal | | With ground terminal | |
| | | Bags | Embossed Tape | Bags | Embossed Tape |
| | General-purpose: 160 g | B3S-1000 | B3S-1000P | B3S-1100 | B3S-1100P |
| | High-force: 230 g | B3S-1002 | B3S-1002P | B3S-1102 | B3S-1102P |

Important Note: Switches cannot be water-washed.

Specifications

■ Characteristics

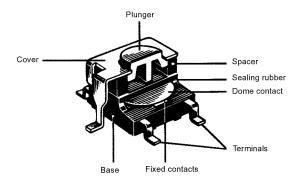
| Switching capacity | | 50 mA 24 VDC (resistive load) | |
|-------------------------|------------------------|--|--|
| Contact form | | SPST-NO | |
| Permissible load | | 1 mA 5 VDC min. (resistive load) | |
| Contact resistance | | 100 MΩ max. | |
| Insulation resistance | | 100 MΩ min. (at 250 VDC) | |
| Dielectric strength | | 500 VAC, 50/60 Hz for 1 minute | |
| Bounce time | | 5 ms max. | |
| Vibration | Malfunction durability | 10 to 55 Hz, 1.5-mm double amplitude | |
| Shock | Mechanical durability | 1,000 m/s ² (approx. 100 G) | |
| | Malfunction durability | 100 m/s ² (approx. 10 G) | |
| Ambient temperature | | -25° to 70°C (with no icing) | |
| Humidity | | 35% to 85% RH | |
| Service life | General-purpose type | 500,000 operations min. | |
| [Mechanical/electrical] | High-force type | 300,000 operations min. | |
| Weight | | Approx. 0.30 g | |

Note: Data shown are of initial value.

■ Operating Characteristics — B3S-1□□□ Series

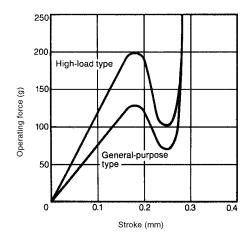
| Characteristics | General-purpose | High-force |
|---------------------------|--|--|
| Operating force (OF) max. | 160 g | 230 g |
| Release force (RF) min. | 20 g | 50 g |
| Pretravel (PT) | 0.25 + ^{0.2} / _{-0.1} mm | 0.25 + ^{0.2} / _{-0.1} mm |

■ Construction



Engineering Data

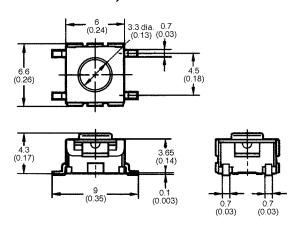
■ Operating Force vs. Stroke (Typical Example)

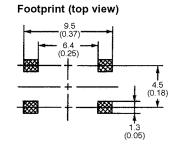


Dimensions

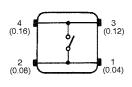
Unit: mm (inch)

■ B3S-1000, B3S-1002

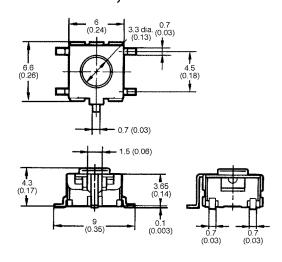


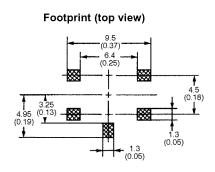


Terminal arrangement/Internal connection (top view)

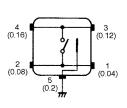


■ B3S-1100, B3S-1102

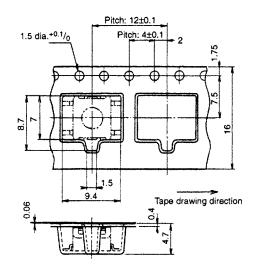


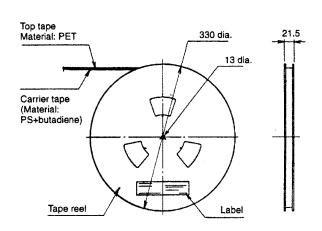


Terminal arrangement/Internal connection (top view)



■ Tape Packaging Dimensions







Hints on Correct Use

See the Tactile Switch User's Guide, "Tactile Switches - Technical Information" for information regarding processing and handling.

Omron Electronic Components, LLC

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The buyer of Products, including any end user in section III through VI Products and/or services of Seller Buyer: Products: (c) (d)

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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. J01C-E-01

10/07

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