

**NO:** SW-080  
**DATE:** October 2008

**PRODUCT:** B3S-L Switches  
**TYPE:** Product Release (Internal)

## B3SL Middle Stroke Tactile Switch

Omron is pleased to present a new Tactile Switch to our line of products. The new B3SL family offers a 90° C max Operating temperature, middle-stroke and “crisp” click feeling with internal rubber plunger ideal for Home Appliances, Industrial Equipment and any operating interface applications. The switch was primarily designed for Appliance use, but may provide a solution to other applications such as Automotive Body controllers, Visor switches, Radio and GPS control panels.

### Key Features

- 90°C Maximum operating Temperature
- Sealed construction conforming to IP64 (IEC 60529) provides high contact reliability in dusty environments.
- Crisp click feeling and middle stroke with rubber plunger.
- Two heights available, 3.4 mm and 5.1 mm
- Tape packing is available
- RoHS Compliant



### Target Markets / Applications



The B3S-L is designed and suited best for Appliance devices, Industrial, or Automotive Control panels.

### Benefits and Product Positioning

B3SL offers a 90° C max operating temperature with IP-64 Dust Proof construction.

### Selling Information

#### Ordering Information

Type	Plunger	Height	Operating force (OF)	Embossed tape	
				Model	Minimum order
6 x 6 mm B3SL Series	 (Flat type)	3.4 mm	1.96 N (200 gf)	B3SL-1002P	2,000
	 (Flat type)	5.1 mm		B3SL-1022P	1,400

**Note:** Orders must be made in multiples of the minimum order. Switches are not sold individually.

## ■ Characteristics

Switching capacity	1 to 50 mA at 5 to 12 VDC (resistive load)
Contact form	SPST-NO
Contact resistance	100 mΩ max. (initial value) (for 1 mA at 5 VDC)
Insulation resistance	100 MΩ min. (at 250 VDC)
Dielectric strength	250 VAC, 50/60 Hz for 1 min.
Bounce time	5 ms max.
Vibration resistance	Destruction: 10 to 55 Hz, 1.5-mm double amplitude
Shock resistance	Destruction: 1,000 m/s <sup>2</sup> (approx. 100 G) max.
Ambient operating temperature	-25 to 90°C at 60% max. (with no icing or condensation)
Ambient operating humidity	35% to 85% (at 5 to 35°C)
Service Life (Mechanical / electrical)	100,000 operations min.

## ■ Operating Characteristics

Model	B3SL-1002P	B3SL-1022P
Item		
Operating force (OF)	1.96 ± 0.49 N (200 ± 50 gf)	
Release force (RF)	0.35 N min. (35 gf)	
Pretravel (PT)	0.3 ± 0.2 mm	0.5 ± 0.2 mm

## Packaging

Standards	Conforms to JIS.
Package	2,000 Switches (B3SL-1002P) 1,400 Switches (B3SL-1022P)
Heat resistance	60°C for 24 hours (without deformation)