# ULTRA SMALL SUBMINIATURE BASICS

#### SINGLE BREAK, SNAP-ACTION, COMMERCIAL & MILITARY GRADES, ULTRA SMALL SUBMINIATURE

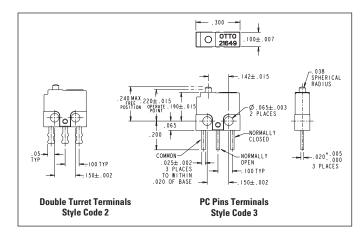
The B1 series basic switches are ultra-subminiature in size, designed to reliably switch low level signals as well as up to 2 amps switching capacity for a minimum of 25,000 cycles. Mechanical life expectancy is in excess of one million cycles.

The molded housing is rugged and structurally stable. The terminals are molded-in and sealed against solder flux entering the switch. The terminals are available in a choice of double turret solder style and 0.020" x 0.025" PC pins.

The B1 series is also available with integral lever actuators as B1-5 series.

# **Features:**

- Ultra-compact: only 0.300" w x 0.255" h x 0.100" thick
- 1 million cycle life, B1-5 Series
- Low level or logic level switching capability
- Designed in accordance with MIL-PRF-8805/94
- **Available in Commercial & Military grades**
- Choice of solder or PC molded-in terminals
- **Precision operating points**
- **RoHS/WEEE/Reach compliant**

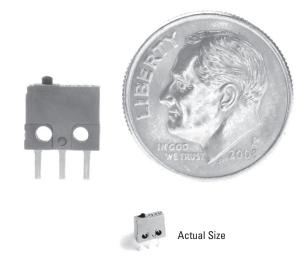


## ORDERING INFORMATION:

### **B1 Basic**

Select the OTTO B1 basic switch to match your specific circuit and mechanical requirements. To order, specify your requirement using the OTTO Part Number Code shown below.

Example: B1-12111 specifies Military grade construction, double turret terminals, 6 oz max operating force and silver/gold high current contacts.



Standard Chara	ecteri	etice/Ratinge:	
ELECTRICAL RATINGS:			
Load		evel @ 28VDC or 115VAC, 60Hz	50,000 feet @ 28VDC
Resistive	2A	·	2A
Inductive*	0.5A		0.2A
DWV	1000Vrms		400Vrms
Low Level	30m\	/DC max and 10mA max	30mVDC and 10mA max
*L/R = 0.026			
Electrical Life:		25,000 cycles	
Mechanical Life:		B1 Series is 100,000 cycles (B1-5 S	eries is 1,000,000 cycles)
Seal:		Unsealed	
Operating Temp R	ange:	-55°C to +125°C	
Operating Force:		6 oz max	
Release Force:		0.7 oz min	
Operate Point:		0.220 +/- 0.015 inches from mounting	ng holes
Overtravel:		0.003 inches min	
Movement Differe	ntial:	0.002 inches nominal, 0.005 inches	max
Pretravel:		0.015 inches max	
MATERIALS:			
Case:		Thermoset, blue	
Cover:		Thermoplastic, blue	
Button:		Thermoplastic, black	
Terminals:		Brass, gold over nickel	
Contacts:		Stationary: Silver with gold Moveable: Silver with gold	
Terminal Hardwar	Α.	None provided	
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Mounting Hardwa	re:	None provided	

#### **B1 PART NUMBER CODE R1** Construction Terminal Movement Contact Operating Material Grade Style\* Force **Differential** 1. Military 2. Double Turret 1.6 oz max 1.0.005" max 1. Silver/Gold - High Current

3. PC Pins

2. Commercial

3. Silver/Gold - Low Current

<sup>\*</sup> Wire leads available, contact factory.