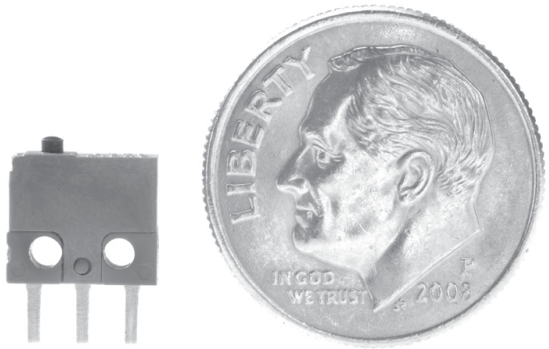
SINGLE BREAK, COMMERICAL & MILITARY GRADES

The B1 series basic switches are ultra-subminiature in size, designed to reliably switch low level logic 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.

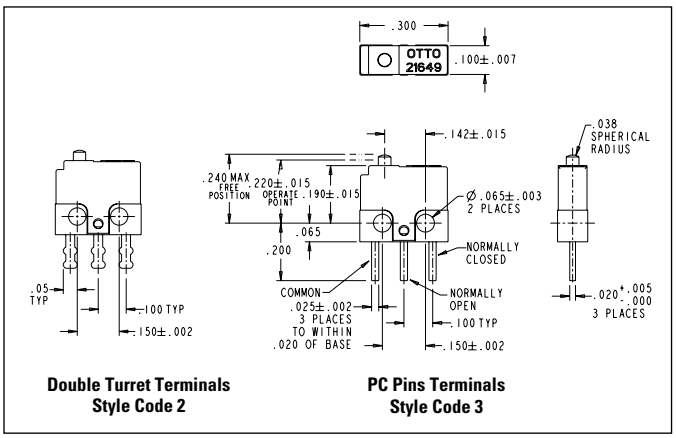
The B1 series is also available with integral lever actuators as B1-5 series.



Actual Size

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 to meet requirements of MIL-PRF-8805/94**
- **Available in Commercial & Military grades**
- **Choice of solder or PC molded-in terminals**
- **Precision operating points**
- **RoHS/WEEE/Reach compliant**



Double Turret Terminals
Style Code 2

PC Pins Terminals
Style Code 3

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 Characteristics/Ratings:		
ELECTRICAL RATINGS:		
Load	**Sea Level @ 28VDC or 115VAC, 60Hz**	**50,000 feet @ 28VDC**
Resistive	2A	2A
Inductive*	0.5A	0.2A
DWV	1050Vrms	400Vrms
Low Level	30mV max and 10mA max	30mV and 10mA max
*L/R = 0.026		
Electrical Life:	25,000 cycles	
Mechanical Life:	B1 Series is 100,000 cycles (B1-5 Series is 1,000,000 cycles)	
Seal:	Unsealed	
Operating Temp Range:	-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 holes	
Overtravel:	0.003 inches min	
Movement Differential:	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 Hardware:	None provided	
Mounting Hardware:	None provided	

B1 PART NUMBER CODE

B1 – X X X X X

Construction Grade	Terminal Style*	Operating Force	Movement Differential	Contact Material
1. Military **2.** Commercial	**2.** Double Turret **3.** PC Pins	**1.** 6 oz max	**1.** 0.005" max	**1.** Silver/Gold – High Current **3.** Silver/Gold – Low Current

* Wire leads available, contact factory.