

ULTRA SMALL SUBMINIATURE BASICS

B1
BASIC
SWITCHES

SINGLE BREAK, COMMERCIAL & MILITARY GRADES

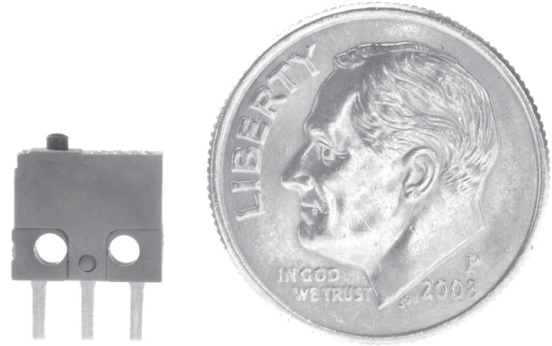
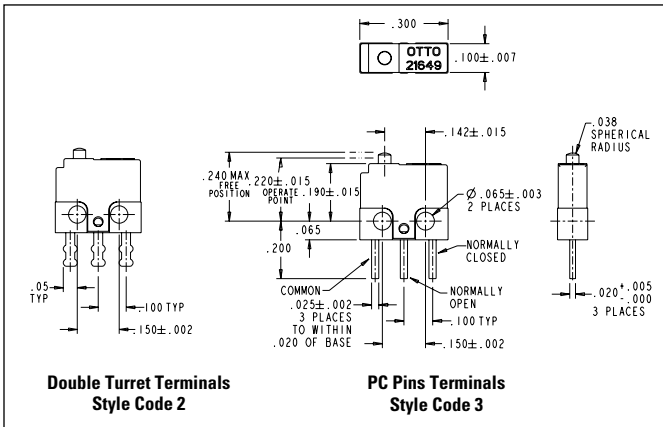
The B1 series basic switches are ultra-subminiature in size, designed to reliably switch low level logic signals as well as up to 2 amps switching capacity for a minimum of 25,000 cycles. Mechanical life expectancy is in excess of one million cycles.

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.

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**



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

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.

B1 PART NUMBER CODE

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

* Wire leads available, contact factory.