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 $0.020^{\prime \prime} \times 0.025^{\prime \prime}$ PC pins.

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

## Features:

- Ultra-compact: only 0.300 " w x $0.255^{\prime \prime} \mathrm{h} \times \mathbf{0 . 1 0 0 " ~ t h i c k ~}$
- 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 Characteristics/Ratings: |  |  |
| :---: | :---: | :---: |
| ELECTRICAL RATINGS: |  |  |
| Load | Sea Level @ 28VDC or 115VAC, 60Hz | 50,000 feet @ 28VDC |
| Resistive | 2A | 2A |
| Inductive* | 0.5A | 0.2A |
| DWV | 1000 Vrms | 400 Vrms |
| Low Level | 30 mVDC max and 10 mA max | 30 mVDC and 10 mA 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: $-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$ |  |  |
| Operating Force: | 602 max |  |
| Release Force: | 0.7 oz min |  |
| Operate Point: | $0.220+/-0.015$ inches from mounting holes |  |
| Overtravel: | 0.003 inches min |  |
| Movement Differentia | ial: 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



