

SEALED BASIC SWITCH WITH LEVERS

B3S-5
SEALED BASIC SWITCHES

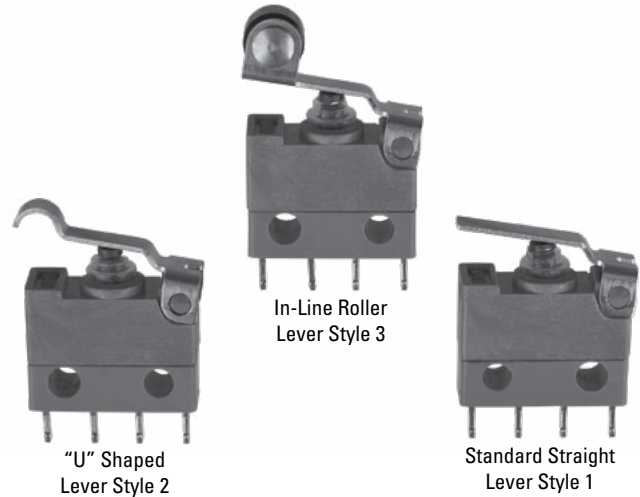
SEALED, DOUBLE BREAK, SNAP-ACTION, SUBMINIATURE, INTEGRAL LEVERS

The B3S-5 sealed, subminiature basic switch is made with an integral actuating lever, combining the switch and actuator into one assembly. Sealed to IP68S, the snap-action switch is tested to 1 million cycles at logic level, offering reliable operation in demanding applications and precision in terms of accuracy and repeatability.

The B3S-5 subminiature switch is designed for use in places where space is limited, including internally within toggle, pushbutton and limit switches. It works well in the aerospace, industrial and material handling markets for applications such as conveyor belts, forklifts, ON/OFF switches, door latching mechanisms, fire suppression systems, and timing devices.

Features:

- **Integral Lever Actuators**
- **Sealed to IP68S**
- **Double break circuit**
- **Logic level switching option tested to 1 million electrical cycles**
- **0.200" switch width**
- **Choice of 11 standard terminal styles or wire leads**
- **Momentary action**
- **RoHS compliant**



| B3S-5 Standard Characteristics/Ratings: | | | |
|--|-----------|--------------------|-------------|
| ELECTRICAL RATINGS: | | Sea Level @ 28VDC | |
| Rating | Load | Current | Life Cycles |
| High Level N.C. or N.O. Form X or Y | Resistive | 8A | 50,000 |
| High Level SPDT Form C or Z | Resistive | 5A | 50,000 |
| Logic Level @ 5VDC | Resistive | 10mA | 1,000,000 |
| DWV | 1000Vrms | | |
| Mechanical Life: 1,000,000 cycles | | | |
| Seal: | | IP68S | |
| Operating Temp Range: | | -40°C to +85°C | |
| Operating Force: | | See Part Number | |
| MATERIALS: | | | |
| Cover: | | Blue Thermoplastic | |
| Case: | | Blue Thermoset | |
| Boot: | | Silicone Rubber | |

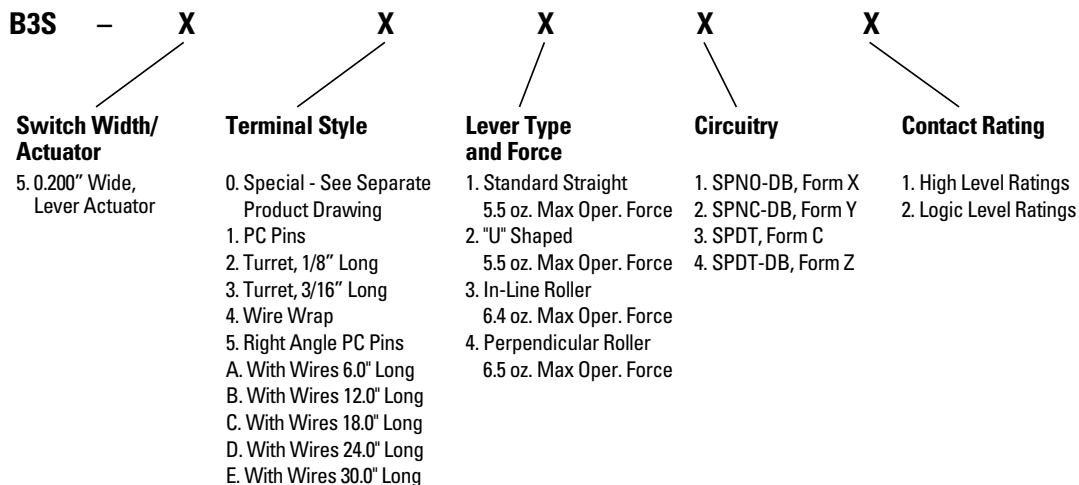
Your official representative



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Indicate. Control. Connect.

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B3S- 5 PART NUMBER CODE



SEALED, DOUBLE BREAK, SNAP-ACTION, SUBMINIATURE, INTEGRAL LEVERS

BASIC SWITCH DIMENSIONS

(APPLIES TO ALL SWITCHES IN THIS DRAWING)

TERMINAL STYLE 1
PC PINS

TERMINAL STYLE 5
RIGHT ANGLE PC PINS

TERMINAL STYLE 2
TURRET, 1/8" LONG

TERMINAL STYLE 3
TURRET, 3/16" LONG

TERMINAL STYLE 4
WIRE WRAP

| TERMINAL NO. | WIRE COLOR |
|--------------|------------|
| 1 | BROWN |
| 2 | YELLOW |
| 3 | RED |
| 4 | BLUE |

| WIRE LENGTH CODE | DIM. "X" | DIM. "Y" |
|------------------|-------------------------|-------------------------|
| A | 6.00±.38 [152.4±9.7] | 6.09±.38 [154.7±9.7] |
| B | 12.00±.50 [304.8±12.7] | 12.09±.50 [307.1±12.7] |
| C | 18.00±.50 [457.2±12.7] | 18.09±.50 [459.5±12.7] |
| D | 24.00±.50 [609.6±12.7] | 24.09±.50 [611.9±12.7] |
| E | 30.00±.75 [762.0±19.05] | 30.09±.75 [764.3±19.05] |

WIRE LENGTH FOR A, B, C, D, & E

24 AWG, NEMA HP3, TYPE E WIRES TYP

OPER. POINT: .378±.029
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .038±.019

STANDARD STRAIGHT LEVER
(LEVER TYPE OPTION 1)

OPER. POINT: .448±.025
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .033±.017

"U" SHAPED LEVER
(LEVER TYPE OPTION 2)

OPER. POINT: .585±.030
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .036±.020

IN-LINE ROLLER LEVER
(LEVER TYPE OPTION 3)

OPER. POINT: .609±.029
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .034±.019

PERPENDICULAR ROLLER LEVER
(LEVER TYPE OPTION 4)

CIRCUIT STYLE 1
SPNO -DB, FORM X

CIRCUIT STYLE 2
SPNC-DB, FORM Y

CIRCUIT STYLE 3
SPDT, FORM C

CIRCUIT STYLE 4
SPDT-DB, FORM Z