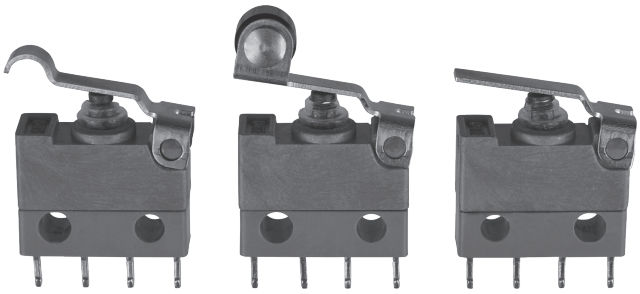
B3S-5 Sealed Subminiature

The B3S-5 sealed, subminiature basic switch is made with an integral actuating lever, combining the switch and actuator into one assembly. Sealed to IP6K8S, the snap-action switch is tested up to 1 million cycles at logic level, offering reliable operation in demanding applications and precision in terms of accuracy and repeatability.

The B3S-5 measures 0.200" wide and 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 IP6K8S
- Double break circuit
- Logic level switching option tested up to 1 million electrical cycles
- 0.200" width
- Choice of 11 standard terminal styles or wire leads
- Momentary action
- RoHS compliant



"U" Shaped Lever Style 2 | In-Line Roller Lever Style 3 | Standard Straight Lever Style 1

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:	Up to 1,000,000 cycles		
Seal:	IP6K8S		
Operating Temp Range:	-40°C to +85°C		
Operating Force	See Part Number		
MATERIALS:			
Cover:	Blue Thermoplastic		
Case:	Blue Thermoset		
Boot:	Silicone Rubber		

B3S-5
Part Number Code

B3S-5 - X X X X X

Switch Width/ Actuator

5. 0.200" Wide, Lever Actuator

Terminal Style

0. Special - See Separate Product Drawing
1. PC Pins
2. Turret, 1/8" Long
3. Turret, 3/16" Long
4. Wire Wrap
5. Right Angle PC Pins
A. With Wires 6.0" Long
B. With Wires 12.0" Long
C. With Wires 18.0" Long
D. With Wires 24.0" Long
E. With Wires 30.0" Long

Lever Type and Force

1. Standard Straight 5.5 oz. Max Oper. Force
2. "U" Shaped 5.5 oz. Max Oper. Force
3. In-Line Roller 6.4 oz. Max Oper. Force
4. Perpendicular Roller 6.5 oz. Max Oper. Force

Circuitry

1. SPNO-DB, Form X
2. SPNC-DB, Form Y
3. SPDT, Form C
4. SPDT-DB, Form Z

Contact Rating

1. High Level Ratings
2. Logic Level Ratings

Your official representative

ALDERS® Indicate. Control. Connect.

ALDERS electronic GmbH
Arnoldstraße 19
47906 Kempen - Germany

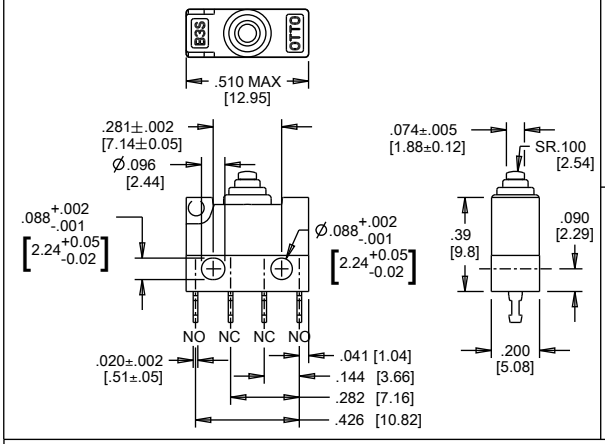
+49 2152 8955-0

sales@alders.de

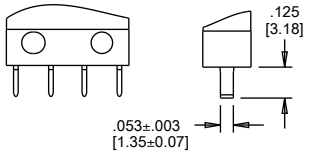
Specifications Subject To Change Without Notice

B3S-5 Drawings

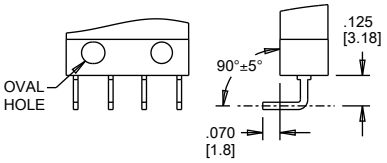
BASIC SWITCH DIMENSIONS
(APPLIES TO ALL SWITCHES IN THIS DRAWING)



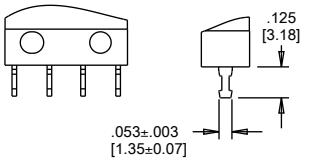
TERMINAL STYLE 1
PC PINS



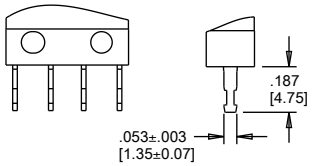
TERMINAL STYLE 5
RIGHT ANGLE PC PINS

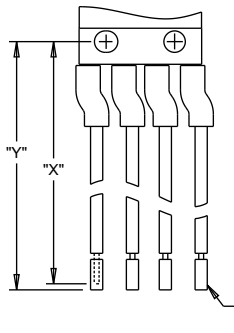


TERMINAL STYLE 2
TURRET, 1/8" LONG



TERMINAL STYLE 3
TURRET, 3/16" LONG



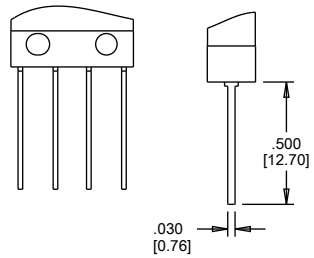


TERMINAL NO.	WIRE COLOR
1	BROWN
2	YELLOW
3	RED
4	BLUE

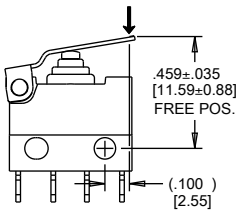
WIRE LENGTH CODE	DIM. "X"	DIM. "Y"
A	6.00±.38 [152.4±9.7]	6.09±.38 [154.7±9.7]
B	12.00±.50 [304.8±12.7]	12.09±.50 [307.1±12.7]
C	18.00±.50 [457.2±12.7]	18.09±.50 [459.5±12.7]
D	24.00±.50 [609.6±12.7]	24.09±.50 [611.9±12.7]
E	30.00±.75 [762.0±19.05]	30.09±.75 [764.3±19.05]

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

TERMINAL STYLE 4
WIRE WRAP

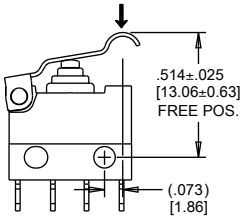


STANDARD STRAIGHT LEVER
(LEVER TYPE OPTION 1)



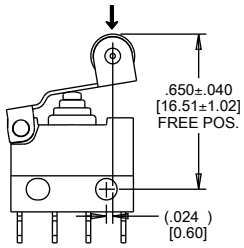
OPER. POINT: .378±.029
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .038±.019

"U" SHAPED LEVER
(LEVER TYPE OPTION 2)



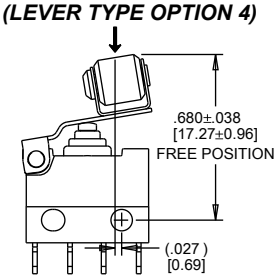
OPER. POINT: .448±.025
OVERTRAVEL: .010 MIN.
MOVE. DIFF.: .033±.017

IN-LINE ROLLER LEVER
(LEVER TYPE OPTION 3)



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

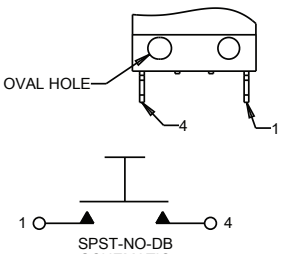
PERPENDICULAR ROLLER LEVER
(LEVER TYPE OPTION 4)



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

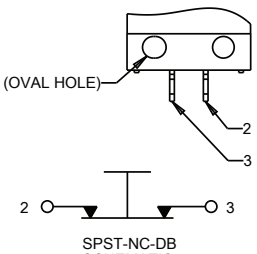
B3S-5 Schematics

CIRCUIT STYLE 1
SPNO -DB, FORM X



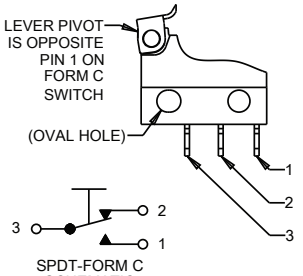
SPST-NO-DB
SCHEMATIC

CIRCUIT STYLE 2
SPNC-DB, FORM Y



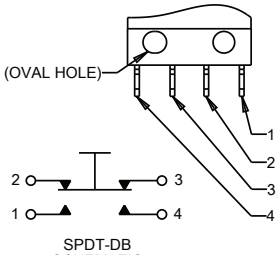
SPST-NC-DB
SCHEMATIC

CIRCUIT STYLE 3
SPDT, FORM C



SPDT-FORM C
SCHEMATIC

CIRCUIT STYLE 4
SPDT-DB, FORM Z



SPDT-DB
SCHEMATIC