B5 Miniature

B5 series basic switches are miniature, double break, snap-action switches available in commercial and military grade. These switches feature up to 10 amps switching capability of up to 100,000 cycles. Mechanical life is up to 1 million cycles.

The molded housing is rugged and structurally stable. The terminals are sealed against solder flux entering the switch and are bright acid tin plated for excellent solderability.

FEATURES:

- Up to 10 amps switching capability
- High contact pressure
- Precision operating points
- Button accepts actuation directly from cam
- Constructed in accordance with MIL-PRF-8805/7 and MIL-PRF-119
- Available in commercial and military grades
- Four standard terminal styles or wire leads
- Momentary action
- RoHS compliant



Solder Terminal Style

Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Circuitry	Load	Sea Level @ 28VDC	70,000 feet @ 28VDC	Sea Level @ 115VAC, 60Hz
SPNO-DB and SPNC-DB	Resistive	10A	10A	7.5A
	Inductive*	7.5A	3.5A	5A
	Lamp	1A	N/A	3A
SPDT-DB 2 Circuit	Resistive	10A	10A	5A
	Inductive*	5A	2A	5A
	Lamp	3A	N/A	1.5A
SPDT	Resistive	10A	10A	5A
	Inductive*	3A	1.5A	N/A
	Lamp	3A	N/A	N/A
*L/R = 0.026				
DWV		1000Vrms	400Vrms	

Electrical Life:	Up to 100,000 cycles
Mechanical Life:	Up to 1,000,000 cycles
Seal:	Unsealed
Operating Temp Range:	-65°C to +125°C
Operating Force:	5 oz, +3/-2 oz or 6 oz max or 5 oz min
Release Force:	2 oz min
Operate Point:	0.406 +/- 0.010 inches from mounting holes
Overtravel:	0.012 inches min
Movement Differential:	0.020 +/- 0.005 inches
Pretravel:	0.050 inches max

MATERIALS:

Case:	Thermoset, blue
Cover:	Thermoset, blue
Button:	Thermoplastic, black
Terminals:	Brass with bright acid tin plating
Contacts:	Stationary: Silver with gold Moveable: Silver with gold
Terminal Hardware:	None provided, optional wires
Mounting Hardware:	None provided

B5 Basic Switch
Part Number Code

B5 - X X X X X

Model	Terminal Style or Wire Length	Operating Force	Circuitry	Contact Material
1. Commercial	**1.** Solder	**1.** 5 +3-2 oz	**1.** SPNO-DB, Form X	**1.** Silver/Gold - High Current
2. Military	**2.** Taper Tab Quick Connect	**2.** 6 oz max	**2.** SPNC-DB, Form Y	**2.** Silver/Gold -Low Current
	3. 0.110 Quick Connect ①	**3.** 5 oz min	**3.** SPDT, Form C	
	4. PC Pin		**4.** SPDT-DB, Form Z	
	A. With Wires 06.0" lg.			
	B. With Wires 12.0" lg.			
	C. With Wires 18.0" lg.			
	D. With Wires 24.0" lg.			
	E. With Wires 30.0" lg.			

① Mates with AMP Series 110 receptacles.

Your official representative

ALDERS® Indicate. Control. Connect.

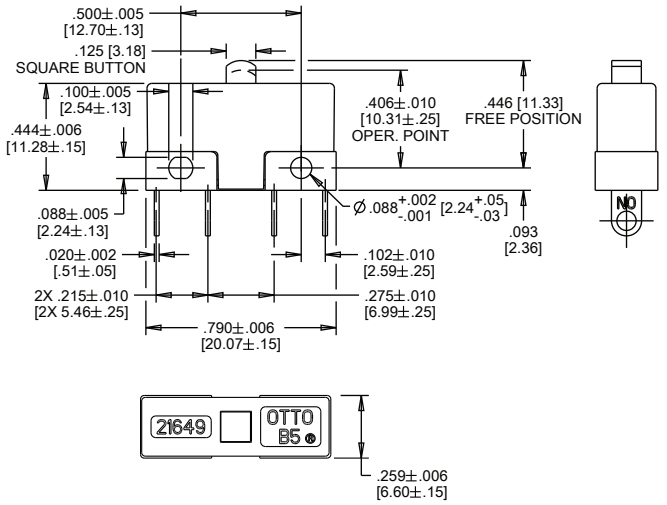
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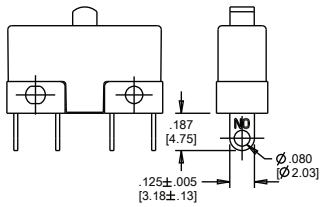
Specifications Subject To Change Without Notice

B5 Drawings

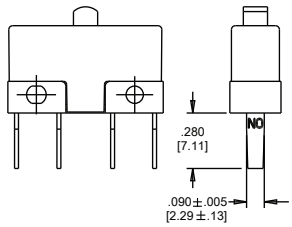
BASIC SWITCH
(APPLIES TO ALL SWITCHES IN THIS DRAWING)



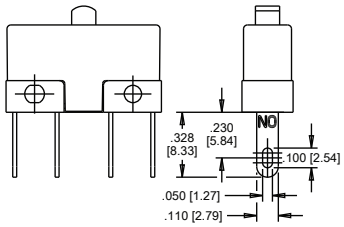
TERMINAL STYLE 1
SOLDER



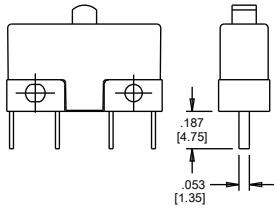
TERMINAL STYLE 2
TAPER TAB Q. C. TERMINALS MATES W/AMP SERIES 78 RECEPTACLES

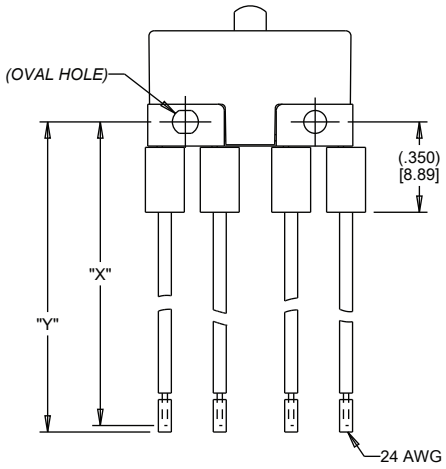


TERMINAL STYLE 3
.110 QUICK CONNECT TERMINALS MATES/AMP SERIES 110 RECEPTACLES



TERMINAL STYLE 4
PRINTED CIRCUIT PINS





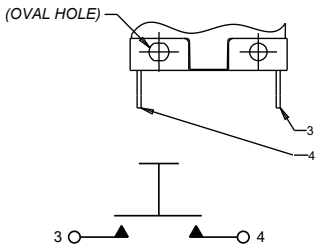
WIRE LENGTH FOR A, B, C & D

WIRE LENGTH CODE	DIM. "X"	DIM. "Y"
A	06.00±.38 [152.4±9.7]	06.09±.38 [157.7±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±19.1]	30.09±.75 [764.3±19.1]

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

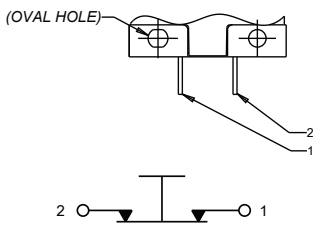
B5 Schematics

CIRCUIT STYLE 1
SPNO -D, FORM X



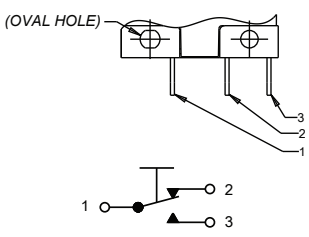
SPST-NO-DB
SCHEMATIC

CIRCUIT STYLE 2
SPNC-DB, FORM Y



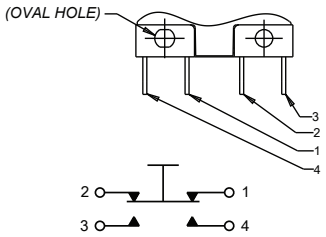
SPST-NC-DB
SCHEMATIC

CIRCUIT STYLE 3
SPDT, FORM C



SPDT-FORM C
SCHEMATIC

CIRCUIT STYLE 4
SPDT-DB, FORM Z



SPDT-DB
SCHEMATIC