

SUBMINIATURE DOUBLE BREAK, SNAP-ACTION COMMERCIAL & MILITARY GRADES

B5 series basic switches are subminiature in size and feature up to 10 amps switching capability of 100,000 cycles. Mechanical life is one 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.

A variety of actuators for pushbutton, toggle and lever actuation are available in standard and custom configurations.

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
- Available in Commercial & Military grades
- Choice of four standard terminal styles or wire leads
- UL recognized
- B5-21141 QPL to MS27217-1
- RoHS/WEEE/Reach compliant



Solder
Terminal Style



Standard Characteristics/Ratings:

ELECTRICAL RATINGS:

Circuitry	Load	Sea Level @ 28VDC or @ 115VAC, 60Hz	70,000 feet @ 28VDC or @ 115VAC, 60Hz	Sea Level @ 125/250VAC, 60Hz
SPNO-DB & SPNC-DB	Resistive	10A	10A	10.1A
	Inductive*	7.5A	3.5A	5A
	Lamp	1A	N/A	3A
SPDT-DB 2 Circuit	Resistive	10A	10A	10.1A
	Inductive*	5A	2A	5A
	Lamp	3A	N/A	1.5A
SPDT	Resistive	10A	10A	10.1A
	Inductive*	3A	1.5A	N/A
	Lamp	3A	N/A	N/A

*L/R = 0.026

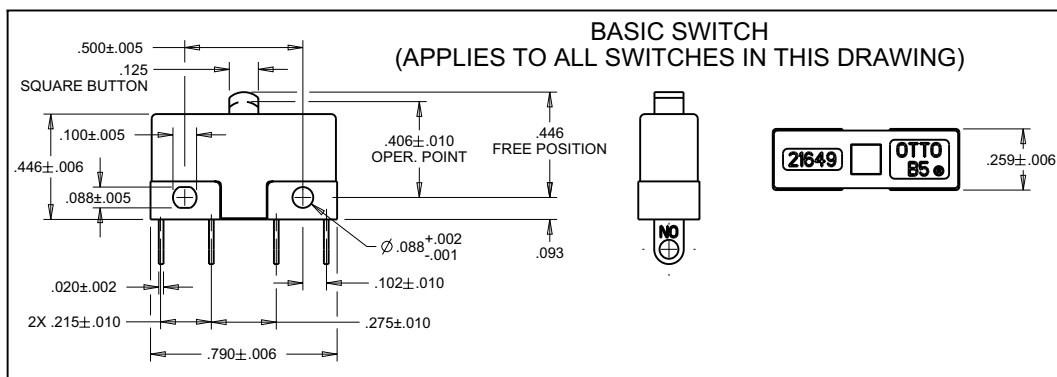
Electrical Life:	100,000 cycles
Mechanical Life:	1,000,000 cycles
Seal:	Unsealed
Operating Temp Range:	-65°C to +125°C
Operating Force:	5 oz, +3/-2 oz or 6 oz max or 3 oz min
Release Force:	2 oz min
Operate Point:	0.406 +/- 0.010 inches from mounting holes
Overtravel:	0.012 inches min
Movement Differential:	0.020 +/- 0.005 inches
Pretravel:	0.050 inches max
MATERIALS:	
Case:	Thermoset, blue
Cover:	Thermoset, blue
Button:	Thermoplastic, black
Terminals:	End or front solder type brass with bright acid tin plating
Contacts:	Stationary: Silver with gold Moveable: Silver with gold
Terminal Hardware:	None provided
Mounting Hardware:	None provided

B5 PART NUMBER CODE

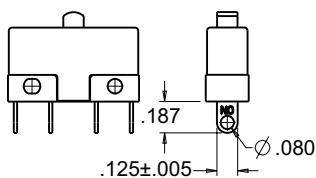
B5	-	X	X	X	X	X
Model		Terminal Style or Wire Length	Operating Force	Circuitry	Contact Material	
1. Commercial		1. Solder	1. 5 ⁺³ / ₋₂ oz	1. SPNO-DB, Form X	1. Silver/Gold – High Current	
2. Military		2. Taper Tab Quick Connect	2. 6 oz max	2. SPNC-DB, Form Y	2. Silver/Gold – Low Current	
		3. 0.110 Quick 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.

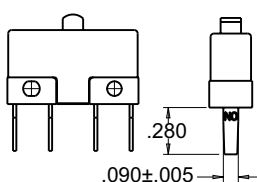
SUBMINIATURE DOUBLE BREAK, SNAP-ACTION COMMERCIAL & MILITARY GRADES



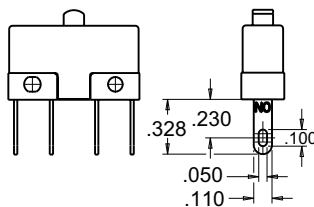
TERMINAL STYLE 1 SOLDER



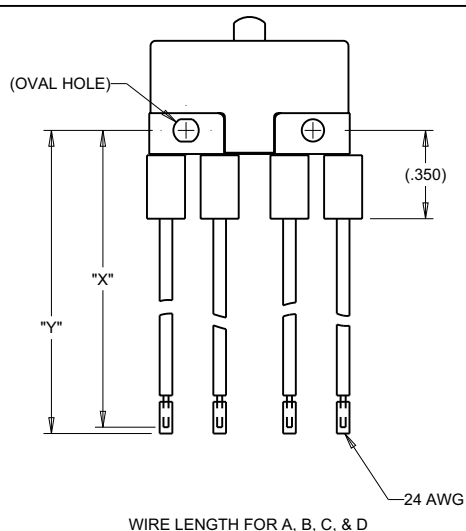
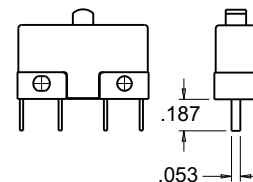
TERMINAL STYLE 2 TAPER TAB Q. C. TERMINALS MATES W/AMP SERIES 78 RECEPTACLES



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

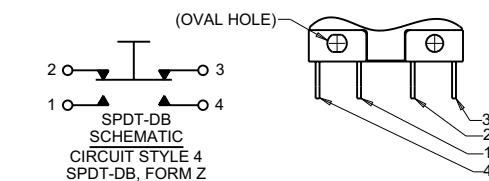
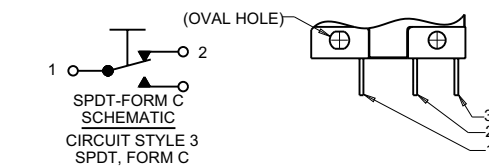
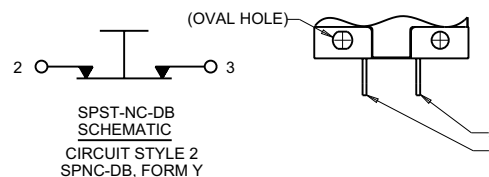
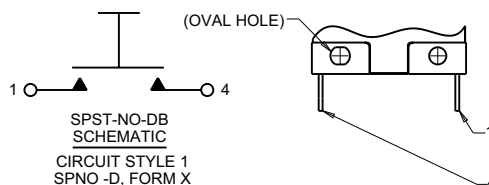


TERMINAL STYLE 4 PRINTED CIRCUIT PINS



WIRE LENGTH CODE	DIM. "X"	DIM. "Y"
A	06.00±.38	06.09±.38
B	12.00±.50	12.09±.50
C	18.00±.50	18.09±.50
D	24.00±.50	24.09±.50
E	30.00±.75	30.09±.75

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



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

OTTO:

[B5-11111](#) [B5-11112](#) [B5-11121](#) [B5-11131](#) [B5-11132](#) [B5-11141](#) [B5-11142](#) [B5-11211](#) [B5-11212](#) [B5-11231](#) [B5-11241](#) [B5-11331](#) [B5-11341](#) [B5-13111](#) [B5-13141](#) [B5-13311](#) [B5-13341](#) [B5-13342](#) [B5-14111](#) [B5-14131](#) [B5-14141](#) [B5-14242](#) [B5-14311](#) [B5-14341](#) [B5-21111](#) [B5-21112](#) [B5-21121](#) [B5-21131](#) [B5-21132](#) [B5-21142](#) [B5-21232](#) [B5-21241](#) [B5-21242](#) [B5-23141](#) [B5-23142](#) [B5-72001](#) [B5-72002](#) [B5-71002](#) [B5-72004](#) [B5-72018](#) [B5-71001](#) [B5-21141](#) [B5-22142](#) [B5-1A231](#)