APB Series Backlit Pushbutton Switch

Features/Benefits

- IP67 sealed
- 1,000,000 life cycle
- Illumination
- Threaded or snap-in mounting
- RoHS compliant

Typical Applications

- Harsh environments
- Off-Road
- Industrial
- Medical
- Transportation
- Joystick control modules
- Gaming
- Militarv



Specifications

FUNCTION: SPST Momentary CONTACT ARRANGEMENT: N.O.

MOUNTING TYPE: Snap-in (no panel seal)

Threaded body (hex nut, lock washer, and panel seal gasket provided) Torque spec for threaded body: Do not exceed 8-9 in-lbs (0.9-1.0 N.m)

Mechanical

OPERATING LIFE: 1,000,000 cycles TOTAL TRAVEL: 2.1 \pm 0.2 mm OPERATING POINT 1.55 \pm 0.25 mm

OVER TRAVEL: 0.6 min.

OPERATING FORCE: 4N ± 1N standard configuration; other force

option $2N \pm 0.5N$

VIBRATION: 10-500 Hz 10g Max SHOCK: 60g 11ms sawtooth wave

Electrical

CONTACT RATING:

200mA @ 24 V DC resistive (500,000 cycles) 100mA @ 50 V DC resistive (500,000 cycles) 400mA @ 32 V AC resistive (500,000 cycles) 125mA @ 125 V AC resistive (1,000,000 cycles)

DIELECTRIC STRENGTH: 1000 V AC min. INSULATION RESISTANCE: 1 G Ω @ 500 VDC

INITIAL CONTACT RESISTANCE 50 mΩ max (without wire leads)

BOUNCE TIME: <5 ms

Materials

HOUSING: PBT BASE: PBT

CAP: Painted polycarbonate

ACTUATOR:

Illuminated: Clear polycarbonate INTERNAL SEAL: Silicone rubber TERMINALS: Copper alloy, gold over silver plating

MOVABLE CONTACT: Copper alloy, gold over silver plating

TERMINAL SEAL: Epoxy

WIRE LEADS: UL1569 Black 22 AWG

Operating Environment

OPERATING TEMPERATURE: -40°C to 85°C

ESD PROTECTION: 20 KV min.

Process Environment

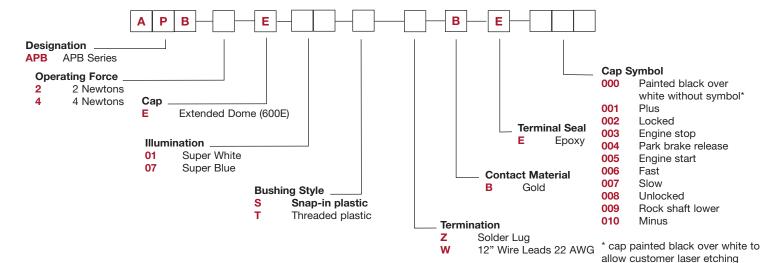
SEALING: IP67 for threaded body

IP65 for snap-in version (no panel seal)

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.

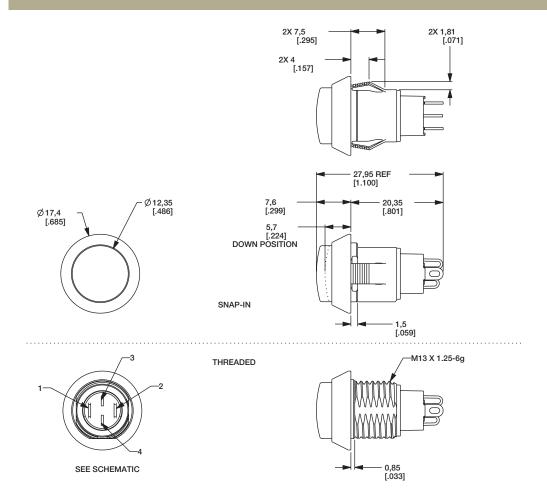
Build-A-Switch

To order, simply select desired option from each category and place in the appropriate box.

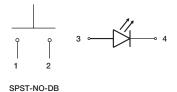


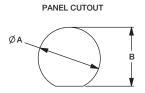


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ELECTRICAL SCHEMATIC



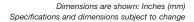


PANEL THICKNESS	DIM A (±0.05 MM)	DIM B (±0.05 MM)
1 MM	13.70 MM	13.00 MM
[0.039 IN]	[0.539 IN]	[0.512 IN]
2 MM	13.80 MM	13.00 MM
[0.079 IN]	[0.539 IN]	[0.512 IN]
3 MM	13.90 MM	13.10 MM
[0.118 IN]	[0.547 IN]	[0.516 IN]
THREADED BODY	13.70 MM	13.00 MM
MIN PANEL THICKNESS 1 MM	[0.539 IN]	[0.512 IN]

A 0.1 MM MIN CHAMFER ON THE LEADING EDGE OF MOUNTING HOLE IS RECOMMENDED FOR SNAP-IN VERSION.





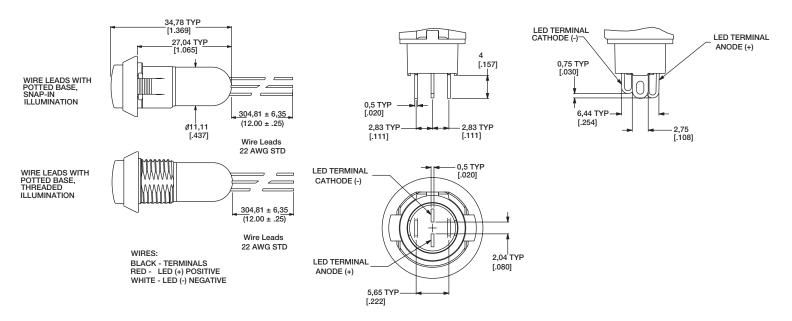


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TERMINATION

W 12" WIRE LEADS

Z SOLDER LUG



CONTACT MATERIAL

B GOLD

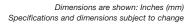
OPTION CODE	CONTACT MATERIAL	
В	Gold	

TERMINAL SEAL

E EPOXY

All models are epoxy sealed







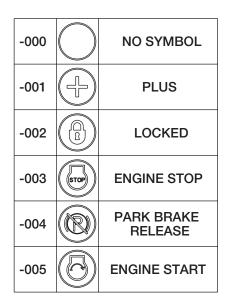
CAP SYMBOLS













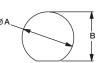






-006	(2)	FAST
-007		SLOW
-008		UNLOCKED
-009		ROCK SHAFT LOWER
-010		MINUS





Panel Orientation Flat indicates bottom

See chart on previous page for dimensions

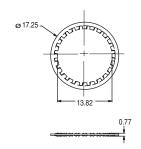
NOTES:

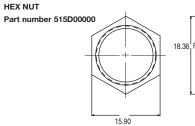
1. ALL GRAPHICS MUST BE POSITIONED AS SHOWN, PERPENDICULAR TO ALIGNMENT FEATURE ON UNDERSIDE OF CAP.

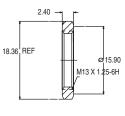
2. GRAPHIC MARKING MUST BE ALIGNED WITH THE FLAT FEATURE ON THE UNDERSIDE OF THE CAP AS SHOWN, TOLERANCE ±3°

HARDWARE

LOCK WASHER Part Number 647D00A47

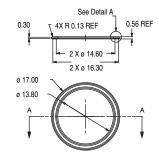






PANEL SEAL Part Number 655D00000







Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

