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
- Military



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 ± 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 $\text{m}\Omega$ 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

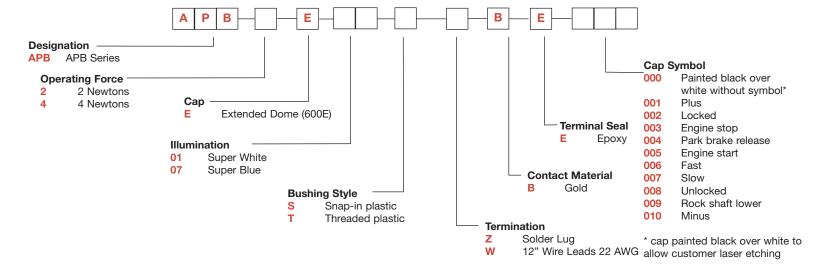
SEALING: IP67 for threaded body

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

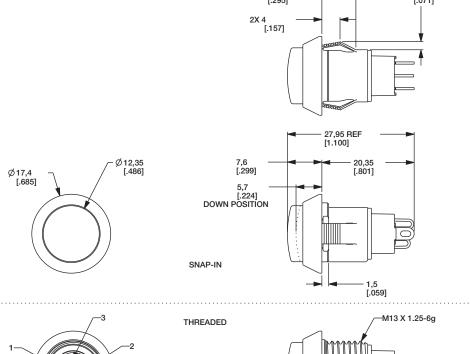
To order, simply select desired option from each category and place in the appropriate box.

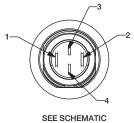


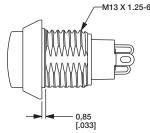


Dimensions are shown: mm (inches) Specifications and dimensions subject to change

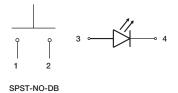
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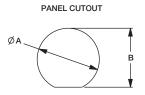






ELECTRICAL SCHEMATIC





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]

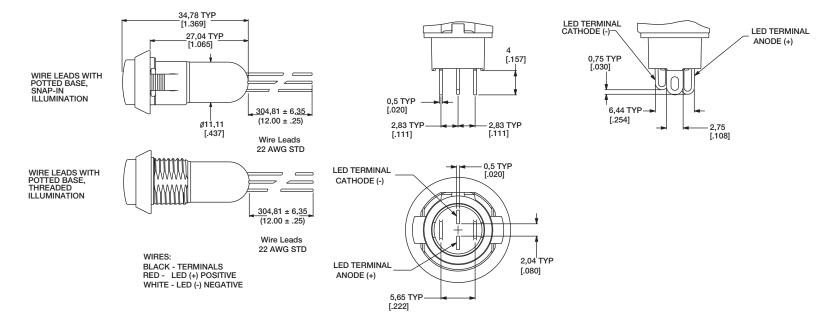
A 0.1 MM MIN CHAMFER ON THE LEADING EDGE OF MOUNTING HOLE IS RECOMMENDED FOR SNAP-IN VERSION.



TERMINATION

W 12" WIRE LEADS

Z SOLDER LUG



	CONTAC	T MATERIAL	
B GOLD	OPTION CODE B	CONTACT MATERIAL Gold	

TERMINAL SEAL

E EPOXY

All models are epoxy sealed



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CAP SYMBOLS









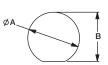
-000		NO SYMBOL
-001		PLUS
-002		LOCKED
-003	STOP	ENGINE STOP
-004		PARK BRAKE RELEASE
-005		ENGINE START





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





Panel Orientation Flat indicates bottom

See chart on previous page for dimensions

- NOTES:

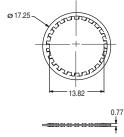
 1. ALL GRAPHICS MUST BE POSITIONED AS SHOWN, PERPENDICULAR TO ALIGNMENT FEATURE ON UNDERSIDE OF CAP.

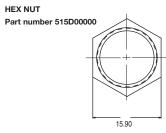
 2. GRAPHIC MARKING MUST BE ALIGNED WITH THE FLAT FEATURE ON THE UNDERSIDE OF THE CAP AS SHOWN, TOLERANCE ±3*

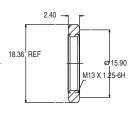
HARDWARE

LOCK WASHER

Part Number 647D00000

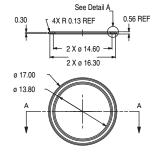






PANEL SEAL Part Number 655D00000





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

