Features/Benefits

- IP67 sealed
- 1,000,000 life cycle
- Illumination / non-illumination
- Multiple colored caps
- Threaded or snap-in mounting
- Caps available separately
- 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 ± 0.2 mm OPERATING POINT 1.55 ± 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 mΩ max (without wire leads)

BOUNCE TIME: <5 ms

Materials

HOUSING: PBT BASE: PBT CAP: PBT ACTUATOR:

Illuminated: Clear polycarbonate

Non-illuminated: PRT 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 (+105°C non-illuminated)

ESD PROTECTION: 20 KV min.

Process Environment

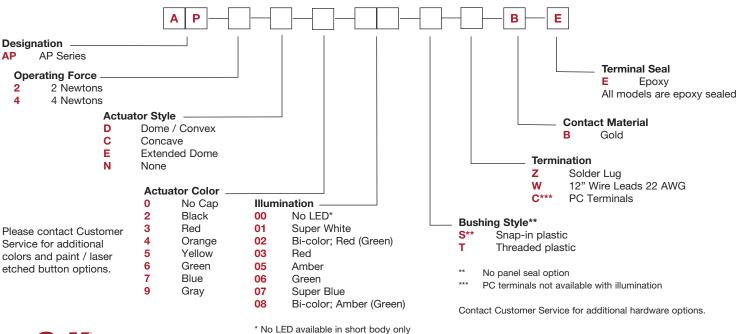
SEALING: IP67 for threaded body

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.

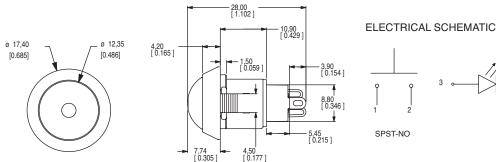
Build-A-Switch

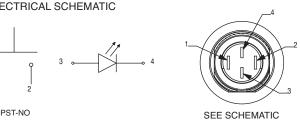
To order, simply select desired option from each category and place in the appropriate box.



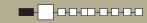


STANDARD VIEW





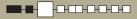
OPERATING FORCE



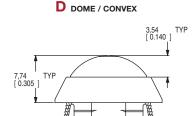
OPTION CODE	OPERATING FORCE
2	2 N, 200 g
4	4 N, 400 g

ACTUATOR STYLE

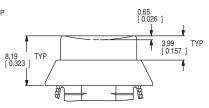
E EXTENDED DOME

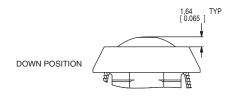


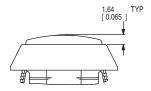
C CONCAVE

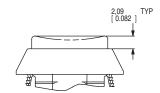




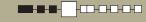






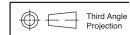


ACTUATOR COLOR



OPTION CODE	ACTUATOR COLOR
0	No Cap
2	Black
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
9	Gray

For additional colors please contact Customer Service.





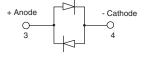
ILLUMINATION

|--|--|--|--|

OPTION CODE	ILLUMINATION TYPE	TYPICAL I	NTENSITY* MAX	PEAK WAVELENGTH	Vf Forward Voltage
		(mcd)		(nm)	
00	Model without illumination	N/A		N/A	
01	LED Super White	4,000	5,000	N/A	3.5
02	LED Bi-Color – Red (Green)	10	20	635/565	2.0
03	LED Red	4	8	700	2.0
05	LED Amber	35	50	610	2.0
06	LED Green	35	50	565	2.0
07	LED Super Blue	800	1,500	470	3.8
08	LED Bi-Color – Amber (Green)	10	10	585/565	2.0

*LED FORWARD CURRENT: 20 mA LED FORWARD VOLTAGE: see chart above LED REVERSE VOLTAGE: 5.0 V MAX

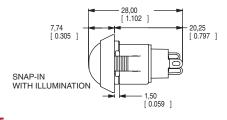
For bi-color LED's the polarity must be reversed to alternate the color

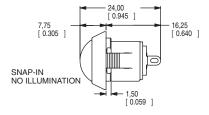


BUSHING STYLE

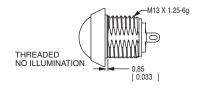


S SNAP-IN

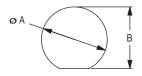




T THREADED PLASTIC -M13 X 1.25-6g THREADED WITH ILLUMINATION - 0,85 [0.033]



PANEL CUTOUT



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 MIN PANEL THICKNESS 1 mm	13.70 mm [0.539 in]	13.00 mm [0.512 in]



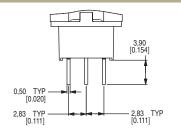


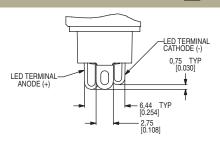
^{*} For information on specific and custom LED, please contact Customer Service.

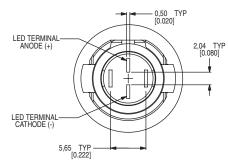
TERMINATION







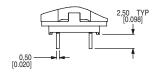




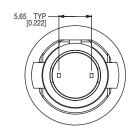
* Switching terminals are gold and LED terminals are silver

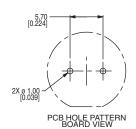
C PC TERMINALS

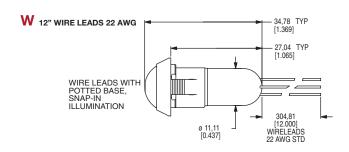
Illumination not available with PC Terminals

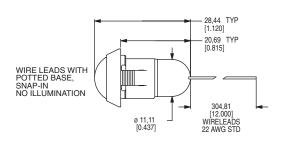


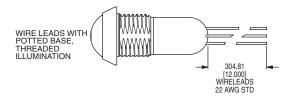


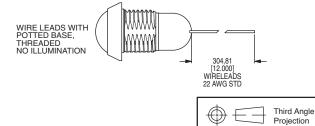












Wires: Black wires - Terminals Red wires - LED (+) Positive White wire - LED (-) Negative





CONTACT MATERIAL

B GOLD

OPTION CODE	CONTACT MATERIAL
В	Gold

TERMINAL SEAL

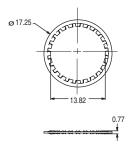
E EPOXY

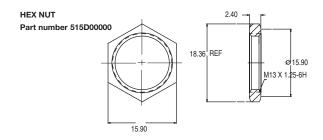
All models are epoxy sealed

HARDWARE

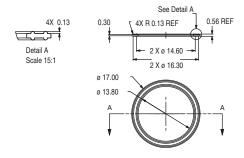
LOCK WASHER

Part Number 647D00000





PANEL SEAL Part Number 655D00000



Caps available on next page





AVAILABLE CAPS







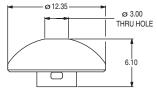


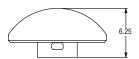
OPTION	CAP COLOR
01	WHITE
02	BLACK
03	RED
04	ORANGE
05	YELLOW
06	GREEN
07	BLUE
08	BROWN
09	GRAY

PART NUMBER	HOLE	STYLE
481DXX000	NO	DOME
481DXX001	YES	DOME
481DXX002	NO	EXTENDED DOME
481DXX003	YES	EXTENDED DOME
481DXX004	NO	CONCAVE
481DXX005	YES	CONCAVE
		•

DOME

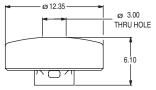
481DXX000 = NO HOLE 481DXX001 = HOLE

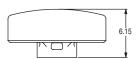




EXTENDED DOME

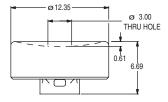
481DXX002 = NO HOLE 481DXX003 = HOLE

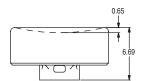




CONCAVE

481DXX004 = NO HOLE 481DXX005 = HOLE









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MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07

861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56

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