ATP16 Series

Anti-Vandal Sealed Pushbutton Switch

Description

ATP16 series offers anti-vandal sealed pushbutton switches. The new high-strength, lightweight switches are IP67 rated, ensuring their suitability for operation in harsh conditions and ability to withstand potential malicious damage. The 16 mm pushbuttons use a scratch-resistant actuator with housings made from robust stainless steel or AL Alloy making them particularly effective for use in remote and unsupervised locations where resilience to damage from vandalism is important, such as push-to-talk devices. Non-illuminated and illuminated pushbuttons are available to fit your application needs.

Features & Benefits

- Momentary or Lock version
- IP67 sealed
- Rated at 2A / 36 Vdc
- 1,000,000 life cycle
- Various colors of LED illuminate indicator
- Choices of actuator with ring or power logo
- RoHS compliant

Applications

- Alarm, safety and security systems
- Intercom "push-to-talk" devices
- Automatic food and drink vending machines
- Parking lot ticket machines & ticket paying stations
- Industrial Instruments

Specifications

Function	SPST
Contact Arrangement	N.O.
Mounting Type	Threaded front panel mount

Mechanical Characteristics

Operating Life	Momentary 1,000,000 cycles Lock 100,000 cycles
Total Travel	Momentary 2.0 mm; Lock 2.3 mm
Operating Force	4.5N ± 1.5N

Electrical Characteristics

Contact Rating	2A / 36 Vdc
Dielectric Strength	2,000 V RMS @ sea level
Insulation Resistance	1,000 MΩ min. @ 500 VDC
Initial Contact Resistance	50 mΩ max @ 1A 12 VDC
Operating Temperature	-20°C to 70°C
Sealing / Protection	IP67

Materials

Bushing	Stainless steel / Aluminum alloy, anodized
Base	PBT (UL 94 V-0), Nylon 6/6 (lock version)
Actuator	PC (UL 94 V2); POM (lock version)
Internal Assembly	POM / PA66
Spring	Steel
Sealing / O-ring	Silicone (Translucent) / Silicone
Terminals / Contact	Brass, Silver or gold plated
Hex Nut	Brass (Nickel plated)

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

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Ordering Number

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

ATP16 - x - xx - x - xx - xx - S - x - xx - G

Designation
ATP16: Series

Actuator Style
D: Dome[1]
S: Standard[2]

Actuator Indicator
L1: Ring
L5: Ring & Power logo

LED Illumination Color
0: Without LED
2: White
3: Red
4: Orange[3]
5: Yellow
6: Green
7: Blue

Dual Color
A: Red & Green
R: RGB[3]

LED voltage DC
00: Without LED
03: 3V
06: 6V
12: 12V
24: 24V

Bushing type
B3: Al alloy (Black anodized)
B4: Al alloy (Natural anodized)
M0: Stainless (Natural), Round[3]
M4: Stainless (Natural), Double D[3]

Contact Arrangement
S: SPST

Mechanical Function
A: Momentary (Double D bushing)
E: Lock (D shape bushing)

Termination
04: Solder lug
W1: Wire lead 500mm[3]

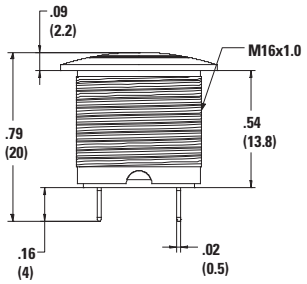
Terminal plating
G: Gold flash

Notes:
1. For bushing type B3 and B4 only.
2. Available on bushing type M0 & M4 only.
3. Available on momentary function only.
4. Available upon request, please consult your sales representative for details.

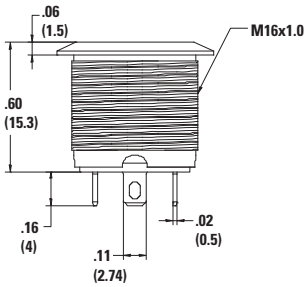
Standard View (mm)

Momentary

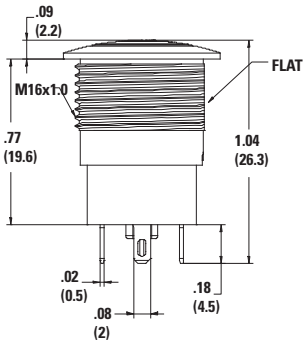
Dome



Standard/Flat

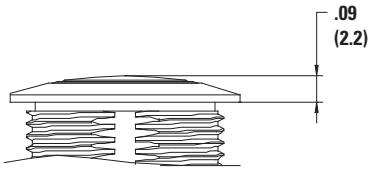


Lock

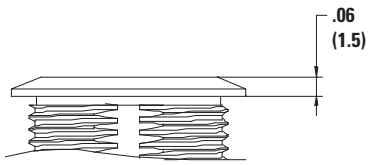


Actuator Style inches (mm)

D Dome



S Standard/Flat



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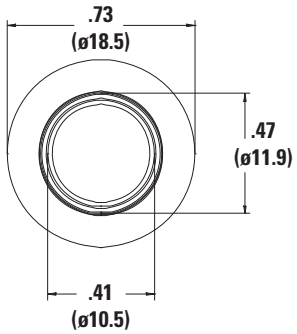
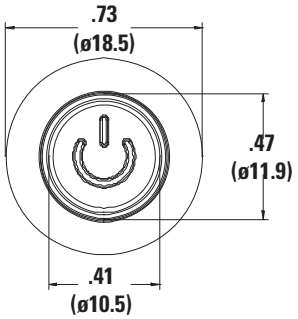
Actuator Indicator inches (mm)

L1 Ring



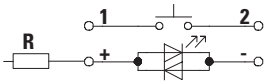
L5 Ring & Power



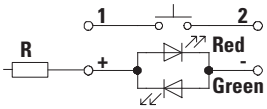
Circuit

Momentary

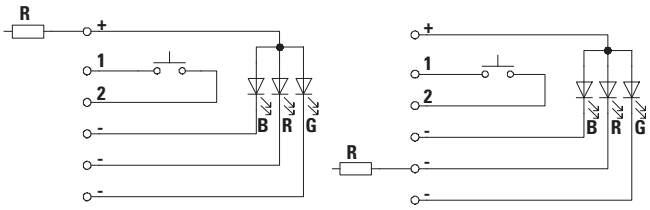
Single Color LED



Duel Color LED

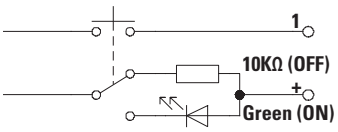


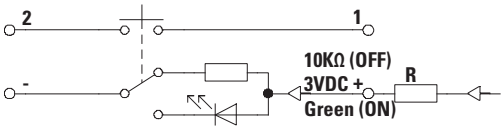
RGB LED



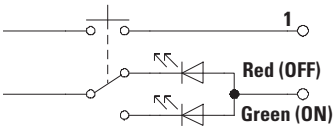
Lock

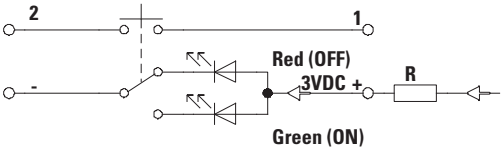
Single Color LED





Duel Color LED





Notes:
R: Resistor value is according to the LED voltage applied.

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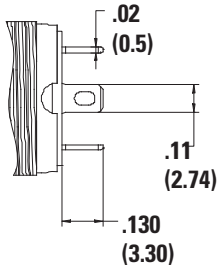
Resistor value (Apply LED voltage)

- LED input 3 VDC, 47 ohms (Red/Yellow/Orange LED type only)
- LED input 6 VDC, 180 ohms
- LED input 12 VDC, 470 ohms
- LED input 24 VDC, 1000 ohms
- Ohms value of resistance tolerance: ± 5%

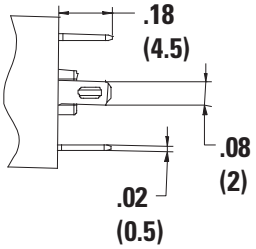
Termination inches (mm)

04 Solder Lug

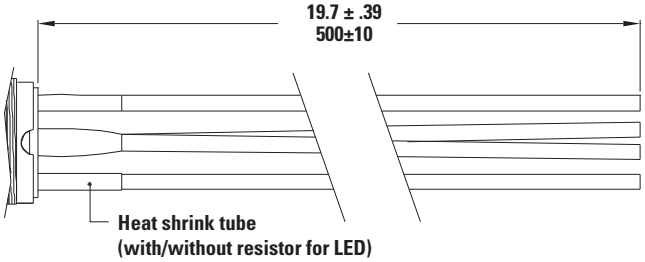
Momentary

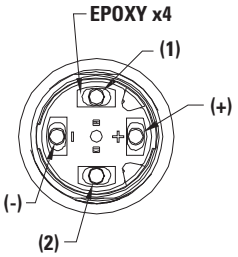


Lock



W1 Wire Lead 500mm[1]

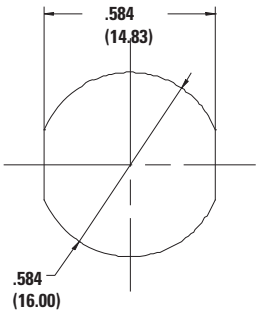




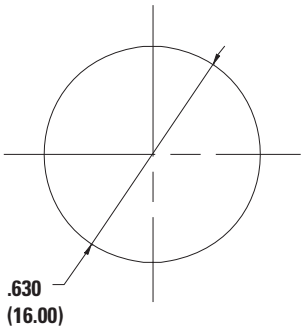
Notes:
1: Available upon request, please consult your sales representative for details.

Panel Cutout inches (mm)

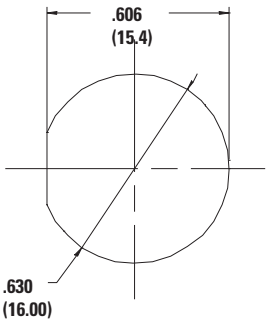
B3, B4 & M4
Double D



M0
Round



B3 & B4
D Shape



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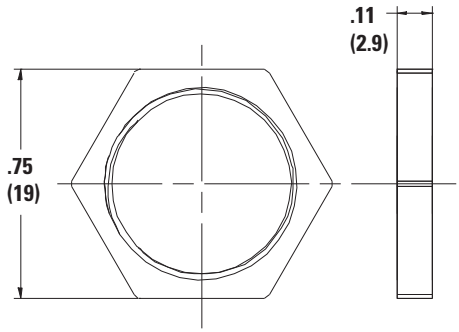
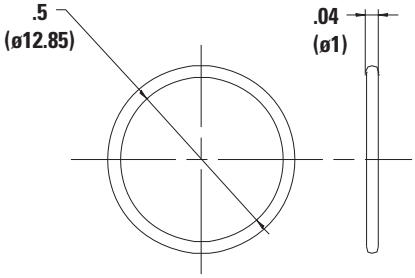
Hardware inches (mm)

Hex Nut
Order PN: ATP16-HN



O Ring
Order PN: ATP16-OR



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