

# ATPS19 Series

## Anti-Vandal Short-Body Sealed Pushbutton Switches



### Specifications

|                          |                            |
|--------------------------|----------------------------|
| Function                 | SPST                       |
| Contact Arrangement      | N.O.                       |
| Mounting Type            | Threaded front panel mount |
| Torque for Threaded Body | 11.5 kgf/cm                |

### Mechanical Characteristics

|                 |                  |
|-----------------|------------------|
| Mechanical Life | 1,000,000 cycles |
| Total Travel    | 1.8 ± 0.2mm      |
| Operating Force | 4.5N ± 1.5N      |

### Electrical Characteristics

|                            |  |
|----------------------------|--|
| Contact Rating             | 2A / 36 Vdc                                |
| Electrical Life            | Make-and-break cycles at full load 200,000 |
| 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 Environment

|                       |               |
|-----------------------|---------------|
| Operating Temperature | -20°C to 70°C |
| Sealing / Protection  | IP67          |

### Description

The ATPS19 series is designed to withstand deliberate damage and vandalism, which in turn can reduce the need for costly in-field repairs and product recalls. Besides being vandal proof, the new switches share many characteristics of other ATP switches in the range, including being lightweight, IP67-rated, and corrosion resistant. As the devices integrating this switch are often outdoors, the switch has been designed to withstand extreme environmental conditions and water exposure.

### Features & Benefits

- Momentary
- IP67 sealed & IK10 (Stainless steel bushing)
- Rated at 2A / 36 Vdc
- 1,000,000 mechanical lifecycles
- 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

### Materials

|                   |                                       |
|-------------------|---------------------------------------|
| Bushing           | Stainless steel                       |
| Base              | PA66, white (UL94-V0)                 |
| Actuator          | PC, translucent (UL 94-V2), std steel |
| Internal Assembly | PC, transparent (UL 94-V2)            |
| Spring            | Steel                                 |
| Sealing / O-ring  | Silicone (Translucent) / Silicone     |
| Terminals         | Brass, gold flash plated              |
| Contacts          | Brass, coin silver, gold flash 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.

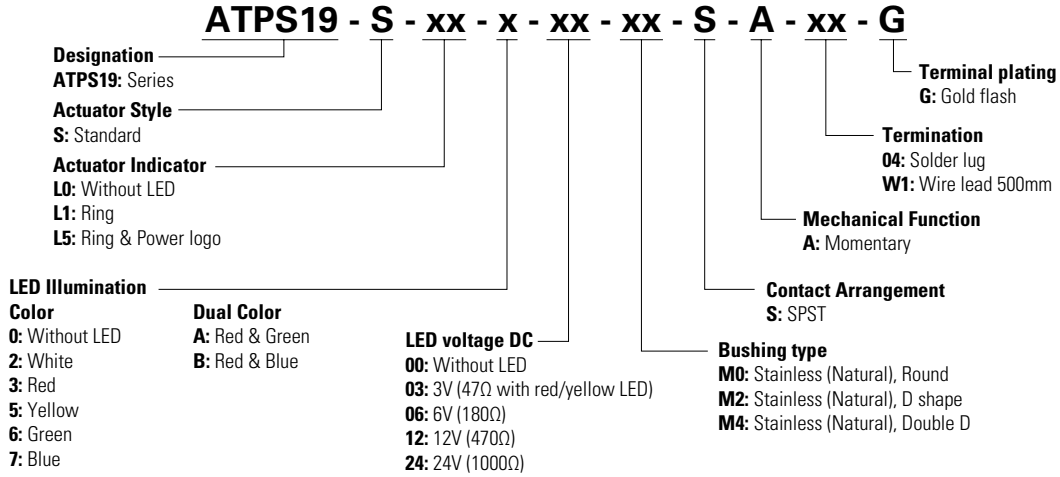
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## Anti-Vandal Short-Body Sealed Pushbutton Switches



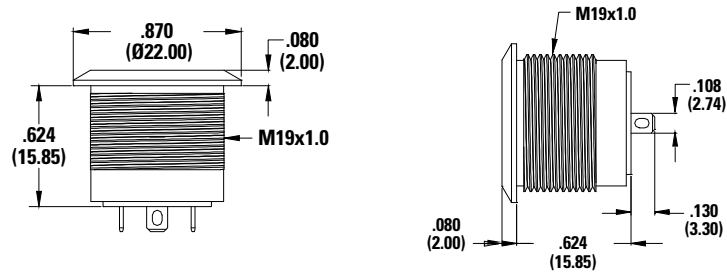
### Ordering Number

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



### Standard View

Standard (inches, mm)

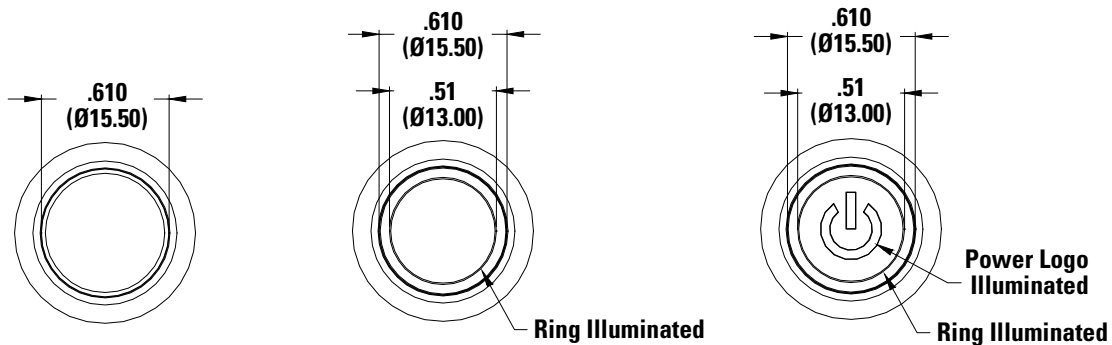


### Actuator Indicator

L0 Without LED

L1 Ring

L5 Ring & Power



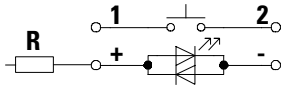
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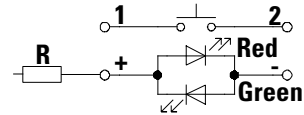


### Circuit Momentary

#### Single Color LED



#### Dual Color LED



**Notes:**

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

#### 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

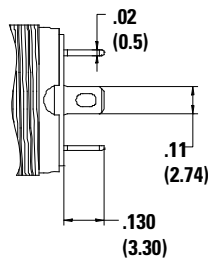
LED input 24 VDC, 1000 ohms

**Notes:**

Ohms value of resistance tolerance: ±5%

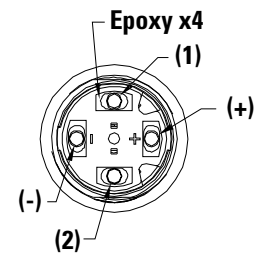
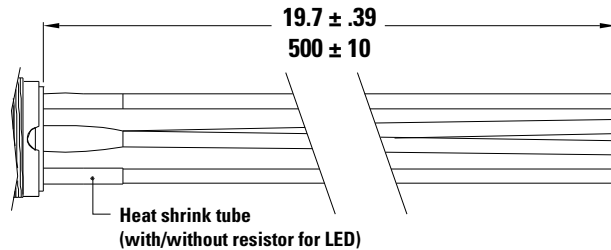
### Termination

#### 04 Solder Lug



#### W1 Wire Lead 500mm<sup>1</sup>

Multi-wire lead AWG20, Section 0.6 mm<sup>2</sup>, UL approved



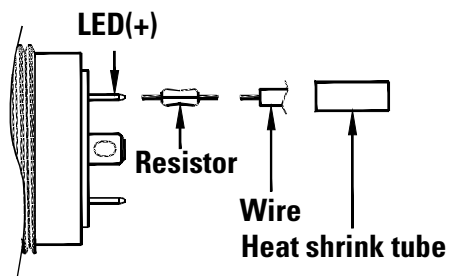
#### Non-LED

| Description | Wire color |
|-------------|------------|
| Terminal 1  | Black      |
| Terminal 2  |            |

#### With LED

| Description | Wire color |
|-------------|------------|
| Terminal 1  | Black      |
| Terminal 2  |            |
| LED+        | Red        |
| LED-        | Green      |

#### Resistor combination



**Notes:**

**1:** Special length, please consult your sales representative for details.

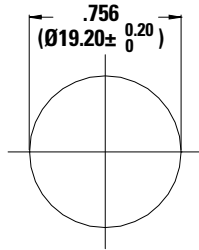
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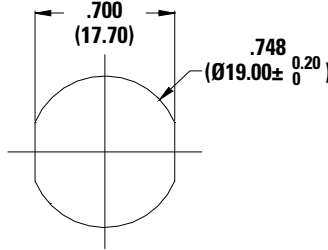


### Panel Cutout

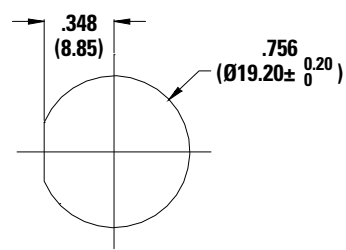
M0 Rounder



M4 Double D

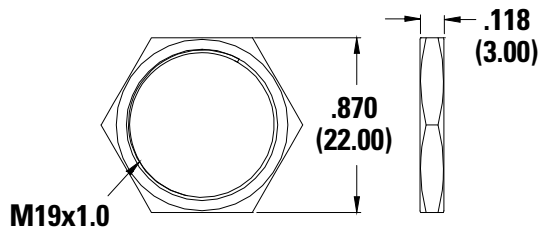


M2 D Shape

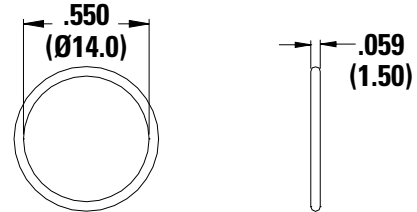


### Hardware

Hex Nut  
Order PN: ATP19-HN



O Ring  
Order PN: ATP19-OR



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