ATP16 Series
Anti-Vandal Sealed Pushbutton Switch

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*

Typical 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
TORQUE FOR THREADED BODY: 11.5 kgf/cm

Mechanical

OPERATING LIFE: Momentary 1,000,000 cycles
Lock 100,000 cycles
TOTAL TRAVEL: Momentary 2.0 mm; Lock 2.3 mm
OPERATING FORCE: 4.5 ± 1.5N

Electrical

CONTACT RATING: 2A / 36Vdc
OPERATING LIFE: Make-and-break cycles at full load
200,000 (Momentary)
100,000 (Lock)
DIELECTRIC STRENGTH: 2,000 V RMS @ sea level
INSULATION RESISTANCE: 1,000 MΩ min. @ 500 VDC
INITIAL CONTACT RESISTANCE : 50 mΩ max @1A 12VDC

Materials

BUSHING: Stainless steel / Aluminum alloy, anodized
BASE: PBT (UL 94-A0), 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)

Operating Environment

OPERATING TEMPERATURE: -20˚C to +70˚C
SEALING / PROTECTION: IP67

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.

A	T	P	1	6										S				G

Designation
ATP16 Series

Actuator Style
D Dome*
S Standard**

Actuator Indicator
L1 Ring
L5 Ring & Power logo

LED Illumination

Color	Dual color
0 Without LED	**A** Red & Green
2 White	**R** RGB***
3 Red	
4 Orange***	
5 Yellow	
6 Green	
7 Blue	

LED voltage DC
00 0V without resistor
03 3V
06 6V
12 12V
24 24V

Bushing type

B3	Al alloy (Black anodized)
B4	Al alloy (Natural anodized)
M0	Stainless (Natural), Round***
M4	Stainless (Natural), Double D***

Contact arrangement
S SPST

Mechanical function
A Momentary (Double D bushing)
E Lock (D shape bushing)

Termination
04 Solder lug
W1 Wire lead 500mm ****

Terminal plating
G Gold flash

* For bushing type B3 and B4 only.
** Available on bushing type M0 & M4 only.
*** Available on momentary function only.
**** Available upon request, please consult your sales representative for details.

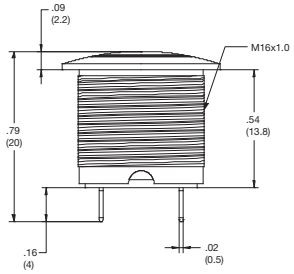
C&K

5 May 21

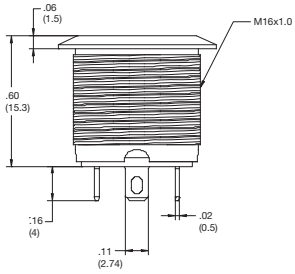
STANDARD VIEW

MOMENTARY

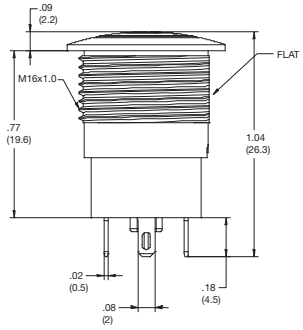
DOME



STANDARD / FLAT

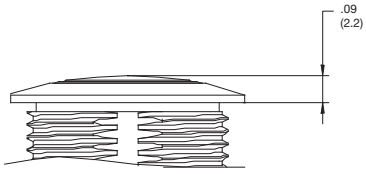


LOCK

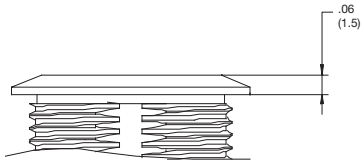


ACTUATOR STYLE

D DOME

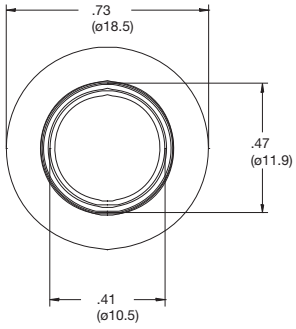


S STANDARD / FLAT

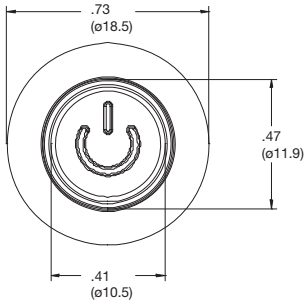


ACTUATOR INDICATOR

L1 RING



L5 RING & POWER

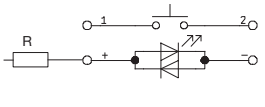


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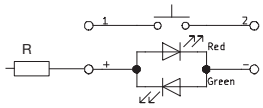
CIRCUIT

MOMENTARY

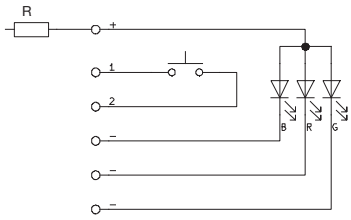
SINGLE COLOR LED



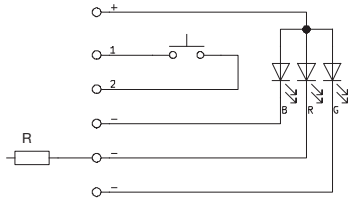
DUAL COLOR LED



RGB LED



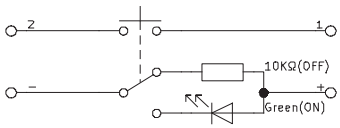
6 / 12 / 24V LED



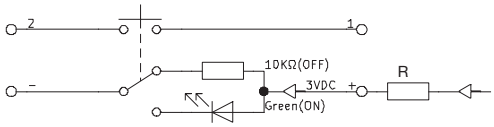
3V LED

LOCK

SINGLE COLOR LED

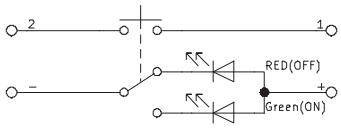


3V LED

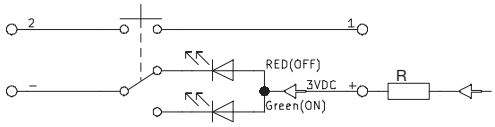


6 / 12 / 24V LED

DUAL COLOR LED



3V LED



6 / 12 / 24V LED

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

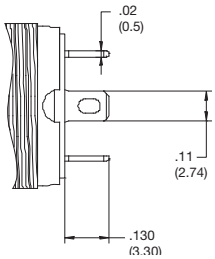
Resistor value (Apply LED Voltage)
LED input 3 VDC, 47 ohms (Red/Yellow/Orange LED type only)
LED input 6 VDC, 180 ohms
LED input 12 VDC, 470 ohms
LED input 24 VDC, 1000 ohms

Ohms value of resistance tolerance: ±5%

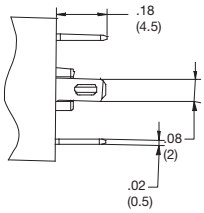
TERMINATION

04 SOLDER LUG

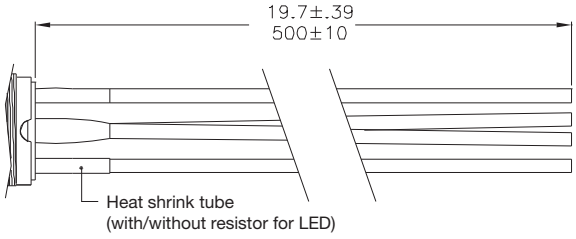
MOMENTARY

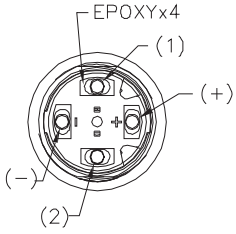


LOCK



W1 WIRE LEAD 500MM*



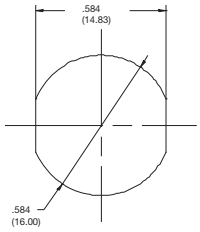


* Available upon request, please consult your sales representative for details.

PANEL CUTOUT

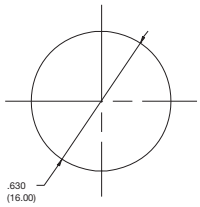
B3, B4 & M4

DOUBLE D



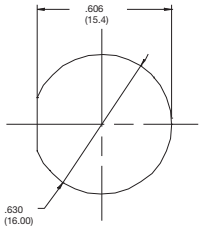
M0

ROUND



B3 & B4

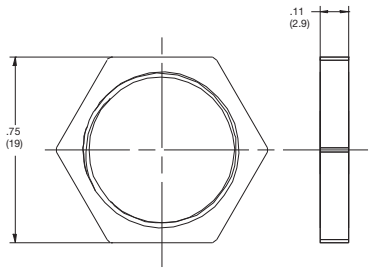
D SHAPE



HARDWARE

HEX NUT

Order PN: ATP16-HN



O RING

Order PN: ATP16-OR

