PTB-19

Anti-vandal piezo switch 19mm, with bevel

The PTB19 is a piezo-electric switch for use in rugged environments and anti-vandal applications. This switch is designed with a bevel on the surface for easy identification of the activation area.

The PTB19 is made of aviation grade aluminium or stainless steel and is fully customizable.

Ideal for use in food processing, parking meters, sanitary applications, pools & spa, clean rooms, oil & gas and self-service terminals.

Key Characteristics

- No moving parts
- Rated at 50 million activations
- Shock proof (IK10)
- Fully waterproof (IP68 and IP69K)
- Activates with gloves and wet hands
- Washdown-proof up to 100 bar
- Reliable operation with snow and mud
- No build-up of dirt or germs

Product Options

- Switch diameter 16mm, 19mm, 22mm & 25mm
- Aluminium 6061 T651, stainless steel 303, 304 or 316
- Switch output (N.O. momentary, N.C. momentary, prolonged, toggle)
- Laser engraving or anodized printing
- Wire length, pins, terminal blocks

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Electrical Data

Switch Function	N.O. Momentary (other functions optional)
Switch Voltage	0-24V AC/DC
Switch Current	0.2A Standard (up to 1 A optional)
Electrical Rating	1 Watt
Operating Cycles	> 50,000,000
Switch Resistance OFF	> 20M Ohm
Switch Resistance ON	< 5 Ohm
N.O. Impulse Duration	125 to 300 ms (depending on force, time and speed)
Switch Capacitance	10 pF
Contact Configuration	Free Polarity

Mechanical Data

Housing Materials	Aluminium 6061 T651 or stainless steel (303,/304/316)
Actuating Force	< 3 Newton
Connection	22 AWG standard (pin or terminal blocks optional)
Shock Protection	IK10
Mounting Screw Torque	2.5 Nm

Environmental Data

Operating Temperature	-20°C to 75°C
Storage Temperature	-40°C to 125°C
IP Protection	IP68 and IP69K
Certifications	CE, RoHS

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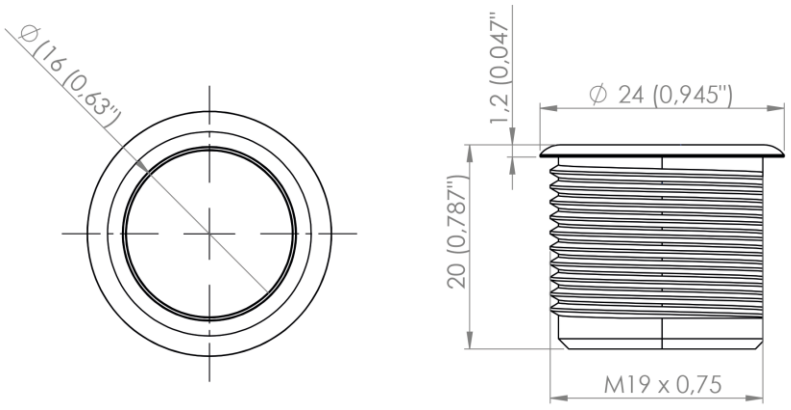
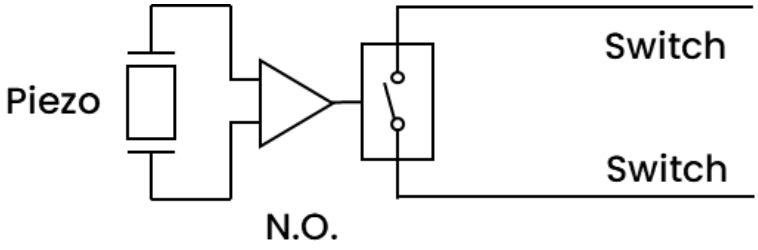
Dimensional Drawing



Electrical Diagram



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