



## Point Illuminated Piezo Switch

### Description

Touch Metal Piezo Switch, 22mm mounting diameter, PG-16 thread, 28mm recessed actuation area, point illuminated with single or bi-color LEDs (5, 12 or 24V). Metal housings are milled, one piece construction and mounted with a nut. Aluminum housings are available in Silver, Red, Black, Green, Gold or Blue anodization.

### Approvals

- MIL-STD - 810C, 202E, 461B, 462
- CE - EVERSWITCH products comply with Directives 2006/95/EEC for low voltage components.
- IP Rating – IP69K Compatible with IEC 60529; EN 60529
- EMC: Directive 2004/108/EWG

### Characteristics

- Proven Reliability: Tested for 50,000,000 cycles
- Weatherproof: Used in harshest outdoor conditions
- Touch Activated: Operable with gloves, tools, etc.
- Sterilizable: Wash down proof up to 100 BAR
- Vandal Resistant: For use in high traffic and abusive areas
- Zero power required for switch operation
- Mimics a dry contact switch closure
- Eliminates RFI, EMI and ESD issues
- Five year warranty

### Customized Options

A wide range of design options are available: connectors, switch function (prolonged, toggle, N.C., continuous, timer, slide and programmable types), current rating (up to 10A), graphics and housing dimensions and materials. We offer an embedded CPU for data output compatible with various communication protocols. Temperature compensated and thermal shock proof versions available as well.

### References

[SML1](#), [SML3](#)

## TECHNICAL DATA

### Electrical Data

|                         |                        |
|-------------------------|------------------------|
| Switch Function         | N.O. Momentary         |
| Switch Voltage          | 0-24 AC/DC             |
| Switch Current          | 0.2A std (0.5A option) |
| Rated Breaking Capacity | 1W                     |
| Operating Cycles        | >50,000,000            |
| Switch Resistance OFF   | > 5 M $\Omega$         |
| Switch Resistance ON    | < 20 $\Omega$          |
| Capacity                | 30 pF                  |
| Pulse Duration          | 125-300ms              |
| Contact Configuration   | Free polarity          |

### Mechanical Data

|                   |  |
|-------------------|--|
| Housing Materials | Aluminum 6061 T651 or<br>Stainless Steel (303/304) |
| Actuating Force   | 3-5 Newton   |
| LED Diameter      | 3mm polycarbonate                                  |
| Connection        | 4 wires ( 12" 24AWGstd)                            |
| Actuating Travel  | 0.002 mm   |
| Shock Protection  | IK 06  |
| Fastening Torque  | 2.5 Nm   |

### Environmental Data

|                       |                        |
|-----------------------|------------------------|
| Operating Temperature | -40 to +85 °C          |
| Storage Temperature   | -40 to +125 °C         |
| IP-Protection         | IP69K (front and back) |

