

PX-13

Rugged Piezoelectric Switches



ROSSLARE'S PX-13 ARE GENERAL PURPOSE HIGH PERFORMANCE 22MM PANEL-MOUNTED NORMALLY OPEN (N.O) PIEZOELECTRIC SWITCHES SUITED FOR LONG-LIFE AND RUGGED USE APPLICATIONS.

MADE FROM AL6061 ALUMINUM ALLOY MATERIAL WITH TYPE II ANODIZATION, THE UNITS ARE AVAILABLE IN 7 COLORS. THE PX-13 REQUIRES NO EXTERNAL POWER SOURCE TO OPERATE; IT IS ANTI-VANDAL, WATER AND WEATHER RESISTANT AND CAN BE OPERATED WITH FINGERS, GLOVES AND THROUGH ELASTOMERIC OVERLAYS.

GENERAL DESCRIPTION

Rosslare's PX-13 is heavy duty, non-sparking, nonmagnetic, corrosion resistant, illuminated, anti-vandal, and is designed for both indoor and outdoor use.

The switch features solid state Piezoelectric Switch Technology generating a dry contact N.O. pulse simply by the touch of a finger, with no physical movement or moving parts.

The PX-13 features virtually unlimited lifespan of over 20 Million uses, which is the ideal benefit of piezoelectric technology, and tested to work in harsh conditions of -40°C to 70°C.

PX-13 meets IP-68 ingress protection and is resilient to submerging in water, dirt and dust applications, making it suitable for both indoor and outdoor conditions.

MAIN FEATURES

- Easy to install and use
- Supports a wide range of switch voltages from 5 V to 12 VDC

- Piezoelectric technology allows sensing actuation within a solid metal enclosure, making the devices rugged and waterproof; meets IP-68
- Fully-potted design prevents penetration of dirt, dust and water
- Require no operating power, capable of actuating a dry contact input
- Available in a range of seven attractive anodized Aluminum colors – Black , Natural (Mat) , Gold, Green, Red, Blue, and Silver

PROFESSIONAL GRADE FEATURES

- SMT designed electronics for higher quality, superior performance, and reduced cost
- Compatible with Rosslare's Access Controllers as a REX or a system input (Alarm or Event)
- No polarity considerations for the Switch
- Meets RoHS Requirements for non-corrosive materials

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Voltage	5 VDC to 12 VDC (Max)
■ Input Current	< 1A
■ Contact Resistance	<100 Ohm
■ Wire Leads	2 x 24 AWG 280 mm (11.02 in.) wires
■ 2-Wire Interface	No polarity wires for +Vin or Ground of switched device
■ Button life	Up to one billion cycles
■ Impulse Time	>50 ms (on Actuation)

ENVIRONMENTAL SPECIFICATIONS

■ Operating Temperature	-40°C to 70°C (-40°F to 158°F)
■ Storage Temperature	-60°C to 80°C (-76°F to 176°F)
■ Operating Humidity	0% to 99% Wet - Meets IP68 (Waterproof)
■ Operating Environment	Indoor and Outdoor

PHYSICAL SPECIFICATIONS

■ Dimensions	Height: 19.5 mm (0.767 in.), Diameter: 29.5 mm (1.16 in.)
■ Standard Thread	22 mm (0.86 in.)
■ Weight	22 g (0.0484 lbs)

SYSTEM COMPONENTS The Piezoelectric switches are compatible with Rosslare's controllers (AC-225, AC-425, AC-115, etc.), security systems and many third party systems.

PRODUCT WARRANTY Lifetime Warranty

ABOUT ROSSLARE SECURITY

Rosslare Security Products, a division of Rosslare Enterprises Ltd. manufactures high-quality security products since 1980. The company's three main lines: Access Control, Intrusion Detection and Guard Patrol, together with a growing product range have transformed Rosslare Security into a major worldwide force in security. Rosslare holds itself to the highest standards of customer service and manufacturing (ISO 9001:2008, ISO 14001:2004, ISO 13485:2003). The company complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

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