

PX-13

Rugged Piezoelectric Switches



Rosslare's PX-13 is a general purpose high-performance 22-mm panel-mounted normally open (N.O) piezoelectric switch suited for long-life and rugged-use applications.

Made from AL6061 aluminum alloy material with Type ii anodization, the unit is available in 7 colors. The PX-13 requires no external power source to operate; it is anti-vandal, water-resistant, 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, and 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 moving parts.

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

PX-13 meets IP68 ingress protection – resilient to submerging in water and resistant to dirt and dust – making it suitable for both indoor and outdoor conditions.

MAIN FEATURES

- Easy to install and use
- Supports a wide range of switch voltages from 0 to 30 VDC

- Piezoelectric technology allows sensing actuation within a solid metal enclosure, making the devices rugged and waterproof; meets IP68
- 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

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Switch Voltage	0 VDC to 30 V AC/DC
■ Switch Current	1 A (max)
■ Wire Leads	2 x 24 AWG 280 mm (11.0 in.) wires
■ 2-Wire Interface	No polarity
■ Button Life	Up to 20 million cycles
■ Impulse Time	>50 ms (on actuation)

ENVIRONMENTAL SPECIFICATIONS

■ Operating Temperature Range	-40°C to 70°C (-40°F to 158°F)
■ Storage Temperature Range	-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 (0.8 in.), Diameter: 29.5 mm (1.2 in.)
■ Standard Thread	22 mm (0.9 in.)
■ Weight	22 g (0.8 oz)

SYSTEM COMPONENTS

The piezoelectric switches are compatible with Rosslare's controllers, security systems, and many third party systems.

PRODUCT WARRANTY

Lifetime Warranty

ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration.

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