

PX-23

Rugged Piezoelectric Switches Bi-Colored LED Illumination



ROSSLARE'S PX-23 SERIES ARE GENERAL PURPOSE HIGH PERFORMANCE 22MM PANEL-MOUNTED, NORMALLY OPEN (N.O.) PIEZOELECTRIC SWITCHES SUITED FOR LONG-LIFE AND RUGGED USE APPLICATIONS. MADE FROM ALUMINUM ALLOY (AL6061) WITH TYPE II ANODIZE AND AVAILABLE IN 7 COLORS. THE PX-23 IS ANTI-VANDAL, WATER AND WEATHER RESISTANT AND CAN BE OPERATED WITH FINGERS, GLOVES AND THROUGH ELASTOMERIC OVERLAYS. PX-23 SERIES HAVE BI-COLORED LED WITH 2 EXTERNAL CONTROL WIRES PROVIDING USER FEEDBACK FOR VARIOUS APPLICATIONS, SUCH AS DOOR EXIT, ELEVATOR PANELS AND INDUSTRIAL EQUIPMENT CONTROL.

GENERAL DESCRIPTION

Rosslare's PX-23 is a heavy duty, non-sparking, nonmagnetic, corrosion resistant, illuminated, anti-vandal, 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-23 series features virtually unlimited lifespan of over 20 Million presses, which is the ideal benefit of piezoelectric technology, and tested to work in harsh conditions of -40°C to 70°C.

PX-23 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
- Light indicator switch colors between red and green when the button is pressed

- Wide range of input voltage from 5V to 12V DC
- Piezoelectric technology can sense actuation within a solid metal enclosure
- Low temperature operation down to -40 degrees Celsius
- Meets IP68, fully potted design resists penetration of dirt and dust and water
- Available in a range of seven attractive anodized Aluminum colors – Black , Natural (Mat) , Gold, Green, Red, Blue, White (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 Switch wiring

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Voltage	5VDC to 12VDC (Max)
■ Input current	< 1A
■ Contact Resistance	<100 ohm
■ Wire Leads (Switch Output)	2 x 24 AWG 280mm (11.02 in) length (UL1569) Yellow wires
■ +VDC & Ground	+5Vdc to 12Vdc Red and Black wires for LED Power
■ Red LED Operation	Ground Brown wire to activate RED LED
■ Green LED Operation	Ground Green wire to activate GREEN LED
■ Button life	Over one million cycles
■ Impulse Time	>50ms (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 (L x W x H)	Height: 19.5 mm Diameter: 29.5 mm
■ 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

5-year Limited Product 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).