# ROSSLARE SECURITY PRODUCTS

# PX-23

Rugged Piezoelectric Switches - Bi-Colored LED Illumination

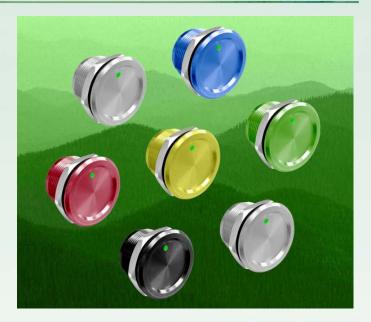
Rosslare's PX-23 series are general purpose high performance 22mm panel-mounted, Normally Open (N.O.) Piezoelectric switches suited for long-life and rugged use applications. Made from Aluminum alloy (AL6061) with Type II anodize and available in 7 colors. The PX-23 is anti-vandal, water and weather 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

#### CREATE YOUR OWN PEACE OF MIND

PX-23 Rugged Piezoelectric Switches – 2-Color LED Point Illumination



#### Product 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)

#### Ordering Info

Product name	Part number	<u>Color</u>
PX-23B	REL-PX23B8+011	Black
PX-23G	REL-PX23G8+011	Gold
PX-23L	REL-PX23L8+011	Blue
PX-23M	REL-PX23M8+011	Green
PX-23N	REL-PX23N8+011	Natural
PX-23R	REL-PX23R8+011	Red
PX-23W	REL-PX23W8+011	Silver

#### System Components

The Piezoelectric switches are compatible with Rosslare's controllers (AC-225, AC-215, AC-115, etc.), security systems and many third party systems.



AC-225

# AC-215

Additional Information

The PX-23 Piezoelectric Switch is covered by Rosslare's 5-year Limited Product Warranty. For sales and product documentation, please visit our website: <u>http://www.rosslaresecurity.com</u>.

