

## 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

# 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	Color
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



L-4K

## 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: <http://www.rosslaresecurity.com>.

