PX-13/23/34



Family of Piezoelectric Switches

Installation Manual

1. Introduction

Rosslare's PX-13/23/34 family of Piezoelectric buttons are heavy duty, non-sparking, non-magnetic, corrosion resistant, illuminated, antivandal, and designed for both indoor and harsh weather outdoor use.

The buttons feature solid state Piezoelectric Switch Technology generating a dry contact N.O. pulse at the touch of a finger, with no physical movement or moving parts.

The PX-13/23/34 series features a virtually unlimited lifespan of over 50 million uses, which is the ideal benefit of Piezoelectric technology. In addition, they are tested to be waterproof (IP68 rating) and work in harsh weather and environmental conditions.

Main Features:

- Virtual unlimited lifespan of over 50 million cycles
- Waterproof, rated IP-68
- Easy to install
- Seven optional body colors
- Two-colored LED control input (PX-23 and PX-34)

PX-13 – Piezoelectric Switch	PX-23 – Piezoelectric Switch with LED Indicator	PX-34 – Piezoelectric Toggle Switch with Controlled Light Ring

2. Technical Specifications

2.1 Electrical Characteristics

Model	PX-13	PX-23	PX-34
Switch Voltage	5–30 VDC/VAC		
Switch Current	1 A	1 A	100 mA
Power Supply Voltage	N/A	12 V	12 VDC
Contact Resistance	0.1 Ohm		16 Ohm
Impulse Time N.O.	> 50 ms		
Finger Pressure on Button	0.5 kg (17.6 oz) for 5 N		
Button Life	Over 50 million cycles		

2.2 Environmental Specifications

Model	PX-13	PX-23	PX-34
Operating Standard	Meets IP68		
Operating Environment	Outdoor use (waterproof)		
Operating Temperature Range	-30°C to 60°C (-22°F to 140°F)		
Storage Temperature Range	-30°C to 70°C (-22°F to 158°F)		
Operating Humidity Range	10% to 90%		

2.3 Physical Specifications

Model	PX-13	PX-23	PX-34
Height	19.5 mm (0.8 in.)		
Diameter	29.5 mm (1.2 in.)		
Standard Thread	22 mm (0.9 in.)		
Standard Wires	24 AWG Wire (UL1007)		
Pigtail Length	280 mm (11.0 in.)		
Weight	22 g (0.8 oz)		
Housing Colors	black, natural, gold, green, red, blue, white		

2.4 Wiring

Model	PX-13	PX-23	PX-34
Switch output	2 x blue		
12 VDC input for LED power supply	N/A*	red	red
Ground	N/A*	N/A	black
LED Control Input – Green LED	N/A*	green	green
LED Control Input – Red LED	N/A*	brown	brown (toggle control)

^{*} It is not required to distinguish the polarity of the wire out.

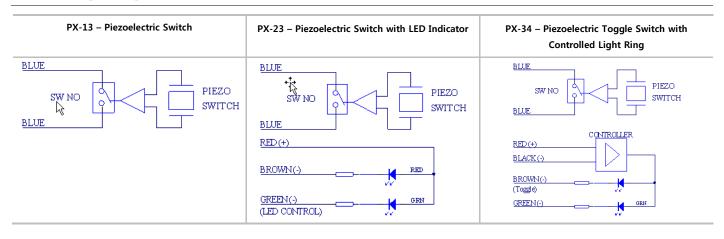


PX-13/23/34

Family of Piezoelectric Switches

Installation Manual

3. Wiring Diagrams



Limited Warranty

The full ROSSLARE Limited Warranty Statement is available in the Quick Links section on the ROSSLARE website at www.rosslaresecurity.com.

Rosslare considers any use of this product as agreement to the Warranty Terms even if you do not review them.

Contact Information

Asia Pacific, Middle East, Africa

Rosslare Enterprises Ltd.

Kowloon Bay, Hong Kong
Tel: +852 2795-5630
Fax: +852 2795-1508

support.apac@rosslare security.com

United States and Canada

Rosslare Security Products, Inc.
Southlake, TX, USA 76092
Toll Free: +1-866-632-1101
Local:+1-817-305-0006
Fax: +1-817-305-0069
support.na@rosslaresecurity.com

Latin America

Rosslare Latin America Buenos Aires, Argentina Tel: +54-11-4001-3104 support.la@rosslaresecurity.com

Europe

Rosslare Israel Ltd.
Rosh HaAyin, Israel 48091
Tel: +972 3 938-6838
Fax: +972 3 938-6830
support.eu@rosslaresecurity.com

China

Shenzhen, China
Tel: +86 755 8610 6842
Fax: +86 755 8610 6101
support.cn@rosslaresecurity.com

Rosslare Electronics (Shenzhen) Ltd.

India

Rosslare Electronics India Pvt Ltd. Tel/Fax: +91 20 40147830 Mobile: +91 9975768824 sales.in@rosslaresecurity.com

Product

Product Name

Document Type



www.rosslaresecurity.com









