

PYR-0021

Miniature Spherical Wired Digital PIR Motion Detector

Rosslare's PYR-0021 is one of a powerful line of high performance indoor Passive Infrared (PIR) motion detectors, ideal for residential, commercial and institutional applications. This advanced PIR packs features such as state-of-the-art spherical lens optics with mirror look-down zones and a unique curtain mask adapter.

With the PYR-0021, motion detection is fully digital. Complex algorithms provide superior catch performance and false alarm immunity. The mini-sized unit is encased in an elegantly designed shell, blending into any environment inconspicuously.

General Description

Rosslare's PYR-0021 was designed with a focus on high quality and reliability as our top priority.

This small sized spherical sensor blends into any environment, keeping a low profile while providing state-of-the-art optics. An advanced spherical lens made out of patented materials provides white light immunity. The optic pattern includes look-down (creep) zone protection using a mirror and curtain zones with a unique snap-in curtain mask.

The internal digital microcontroller with fast memory provides superior motion analysis for catch performance and false alarm immunity with environmental thermal compensation.

The PYR-0021 features jumper selectable LED operation, sensitivity, and cover and back tamper detection.

The product design has smooth curves and blends into most indoor residential and commercial environments.



Main Features

- 14 m (46 ft.) broad coverage
- Digital motion analysis and A-to-D processing in real time, with internal ambient temperature compensation
- Unique fast curtain mask plastic for narrowed detection
- Single LED indication (can be disabled)
- High sensitivity dual-element pyro-sensor, from world-leading manufacturers
- Optional swivel mounting bracket for mounting in flexible locations (BR-21)
- Easy wall or corner installation, with thin wall knockouts in the back case and snap-in main board
- Attractive curved design, with a professional look and feel

PROFESSIONAL GRADE FEATURES

- Selectable pulse counting for normal or harsh environments
- Advanced spherical lens with SSFL mirror look-down, allows detection as close as 50 cm (19.5 inch) from its mounting location
- Draft and insect immune with a sealed chamber for optical components
- LED for walk test that can be disabled after the installation
- Meets or exceeds USA Standard UL 639, Intrusion Detection Units
- Meets or exceeds CENELEC 50131-2-2 PIR Standard, Security Grade 2, and Environmental Grade 1

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Product Specifications

OPTICAL SPECIFICATIONS	
• Lens type	Spherical with mirror SSFL look-down and adapter for curtain mask
• Field of view	115° horizontal; 100° vertical
• Max coverage	14 x 14 m (46 x 46 ft)
• Vertical adjustment	No
• Mounting height	Selectable from 2.0 m to 2.8 m
ELECTRICAL SPECIFICATIONS	
• Input voltage	9-16 VDC
• Input current	15mA @ 12VDC nominal
• Alarm signals	Triggers the alarm relay for three seconds
• LED	Red LED lights for three seconds for alarm signal (use jumper to disable LED)
• Detector	Dual-element low noise pyro-electric sensor
• Sensitivity modes	Low and high interchangeable modes, jumper selectable
• Sensitivity	$\Delta T - 1.1^{\circ}\text{C} @ 0.9 \text{ m/sec}$ ($\Delta T = 2^{\circ}\text{F} @ 3 \text{ ft/sec}$)
• Tamper detection	Cover and wall (use jumper for optional wall tamper)
ENVIRONMENTAL SPECIFICATIONS	
• Operating environment	Indoor use
• Operating temperature	-10°C to 60°C (14°F to 140°F)
• Operating humidity	0% to 95% (non-condensing)
• RFI protection	> 20 V/m up to 1000 MHz
ENVIRONMENTAL SPECIFICATIONS	
• Dimensions (H x W x D)	70 x 70 x 64 mm (2.7 x 2.7 x 2.5 inch)
• Weight	70g (0.15 lbs)

System Components

The PYR-0021 is compatible with Rosslare's AuraSys™ P6 intrusion alarm control panels and MatrixBUS™ accessories, including: LED and LCD keypads, voice communicators, safety sensors, sirens, and remote controls.



L-2



L-4 PCB



L-6C



HLX-40

Additional Information

The PYR-0021 is a high-quality electronic product developed and manufactured under ISO9001:2008 and covered by RSP 2-year Limited Product Warranty.

Please visit our website for documentation and sales information: www.rosslaresecurity.com



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5501-0010693-00
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