PYR-1021

Midsized Spherical Wired Digital PIR Motion Detector

Rosslare's PYR-1021 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-1021, motion detection is fully digital. Complex algorithms provide superior catch performance and false alarm immunity. The midsized unit is encased in an elegantly designed shell, blending into any environment inconspicuously.

General Description

Rosslare's PYR-1021 was designed with a focus on high quality and reliability as our top priority.

This midsized 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 provides superior motion analysis for catch performance and false alarm immunity with environmental thermal compensation.

The PYR-1021 has cover and wall tamper detection, and jumpers for selecting sensitivity and LED operation.

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

Main Features

- 15 m (50 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 in.) 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	15 x 15 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 signal	Red LED lights for three seconds (use jumper to disable LED)
Detector	Dual-element low noise pyro-electric sensor
Sensitivity modes	Low and high interchangeable modes, jumper selectable
Sensitivity	$\Delta T – 1.1$˚C @ 0.9 m/sec ($\Delta T = 2$˚F @ 3 ft/sec)
Tamper detection	Cover and wall (use jumper for optional wall tamper)

ENVIRONMENTAL SPECIFICATIONS	
Operating environment	Indoor use
Operating temperature	-10˚C to 50˚C (14˚F to 122˚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)	107 x 80 x 63 mm (4.2 x 3.15 x 2.48 in)
Weight	100g (0.22 lbs)

System Components

The PYR-1021 is compatible with Rosslare's AuraSys™ P6 intrusion alarm control panels and third party hardwire alarm systems.

Additional Information

The PYR-1021 is a high-quality electronic product developed and manufactured under ISO9001:2000 and is covered by RSP 2-year Limited Product Warranty.

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

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