

## PYR-3021

### Wired Ceiling PIR Motion Detector

Rosslare's PYR-3021 is one of a powerful line of high performance indoor Passive Infrared (PIR) motion detectors, ideal for residential, commercial and institutional applications where wall mounts are difficult or impossible. This extra-wide advanced PIR packs features such as state-of-the-art high density wide angle spherical Fresnel lens optics with white light protection, movement and speed spectrum analysis, ultra-bright LED cover and ceiling tamper detection, and test and go feature.

With the PYR-3021, motion detection is fail-safe. Complex fuzzy logic algorithms provide superior catch performance and false alarm immunity. The extra-wide ceiling unit is encased in an elegant shell, designed for easy and comfortable installation.

### General Description

Rosslare's PYR-3021 is designed with a focus on high quality and reliability as our top priority.

This extra-wide ceiling unit is designed for easy and comfortable free-height installation and easy wiring, with no PCB adjustment required. By using fuzzy logic algorithms, detection is improved and false alarms are greatly reduced.

The highly sensitive quad element sensor, encased in a fully sealed chamber, is combined with the state-of-the-art 360° full vision Fresnel lens for increased detection.

The digital temperature compensation together with the adaptive filter insures equal detection in all situations.

The PYR-3021 has cover and ceiling tamper detection, and jumpers for selecting sensitivity and LED operation.

The easy-to-install and smooth curves design blends inconspicuously into most indoor residential and commercial environments.



### Main Features

- 360° 7m diameter coverage at 2.4 m (94.5 inch) height
- Digital and analog motion analysis with internal ambient temperature compensation
- High sensitivity quad element pyro-sensor, from world-leading manufacturers
- Test and go walk test feature for
- Screw-free cover and snap-in mount for easy installation and cover removal
- Clear high bright LED indication
- Attractive design, with a professional look and feel

### PROFESSIONAL GRADE FEATURES

- Selectable three sensitive levels to meet the need of environment
- Advanced spherical high performance lens for full area monitoring
- Draft and insect immune with a sealed chamber for optical components
- Solid state relay: Provides a nearly unlimited lifespan, EMC resistance and silent operation
- 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

# PYR-3021 Wired Ceiling PIR Motion Detector



## Product Specifications

<b>OPTICAL SPECIFICATIONS</b>	
• Lens type	360° full vision Fresnel lens
• Coverage	7 m (23 ft.) diameter @ 2.4 m (94.5 inch) height
• Optical filter	White light protection
• Field of view	360°
• Mounting height	Between 1.82 to 4.88 m (6 to 16 ft)
<b>ELECTRICAL SPECIFICATIONS</b>	
• Input voltage	9-16 VDC
• Input current	10mA @12 V DC nominal
• Alarm signals	Red LED light for two seconds (push button setting)
• Detector	Quad-matrix pyro IR element (IR filter 5um÷14um)
• Sensitivity	Three levels fuzzy logic (jumper setting)
• Tamper detection	Back and front cover tampers
• Supervisory signals	Electronic malfunction, temperature out of range (by flashing LED)
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
• 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
<b>ENVIRONMENTAL SPECIFICATIONS</b>	
• Dimensions (Diameter x H)	70.7 x 30.85 mm (2.783 x 1.215 inch)
• Weight	84 g (2.96 oz)

## System Components

The PYR-3021 is compatible with Rosslare's AuraSys™ P6 intrusion alarm control panels and MatrixBUS™ accessories, including: safety sensors, sirens, and remote controls.



L-2



L-4 PCB



L-6C



HLX-40

## Additional Information

The PYR-3021 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](http://www.rosslaresecurity.com)



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