

PYR-3011

Wireless Ceiling PIR Motion Detector

Rosslare's PYR-3011 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 wireless PIR packs features such as state-of-the-art high density spherical Fresnel lens optics with white light protection, walk and RF transmission test functions, movement and speed spectrum analysis, ultra-bright LED, cover and ceiling tamper detection, and Auto Power Save (APS) technology.

With the PYR-3011, motion detection is completely digital. Complex fuzzy logic algorithms provide superior catch performance and false alarm immunity.

General Description

Rosslare's PYR-3011's extra-wide ceiling PIR is designed for easy, wireless installation. By using fuzzy logic algorithms, detection is improved and false alarms are greatly reduced.

The heart of the PYR-3011 is a high quality pyro-electric infrared energy sensor, an advanced ultra-low power microcontroller, an A to D signal analyzer with temperature compensation, and an integral RF transmitter with low profile internal antenna.

The PYR-3011's many features include a fully sealed sensor chamber for increased reliability, easy-to-operate LED walk and RF transmission test, dynamic and static transmission modes, selectable sensitivity level, cover and ceiling tamper detection, and automatic low battery detection.

The PYR-3011 uses a 3V 1300mAh high power battery and is compatible with Rosslare Security products from related H-Series (868.35 Mhz) and G-Series (433.92Mhz).



Main Features

- 360° 7m diameter coverage at 2.4 m height
- Analog and digital motion analysis with internal ambient temperature compensation
- High sensitivity dual-element pyro-sensor, from world-leading manufacturers
- Visible easy-to-operate walk and RF test
- Screw free cover and snap-in mount for easy installation and cover removal
- Low battery indication
- Energy saving function
- Clear high bright LED indication
- Attractive design, with a professional look and feel

PROFESSIONAL GRADE FEATURES

- Selectable three sensitivity levels to meet the needs of any environment
- Advanced spherical high performance lens for full area monitoring
- Draft and insect immune with a sealed chamber for optical components
- Front and back tamper for increased security
- 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	360° full vision Fresnel lens
• Coverage	7 m (23 ft.) diameter at 2.4 m height
• Optical filter	White light protection
• Field of view	360°
• Mounting height	Between 1.82 m to 4.88 m (6 to 16 ft)
ELECTRICAL SPECIFICATIONS	
• Battery	CR123A
• Battery voltage and capacity	3v, lithium 1300mAh high power battery
• Input current	Standby 16 µA; maximum 10 mA
• Battery life expectancy	Three years (typical usage)
• Alert signal	Red LED on for two seconds during motion detection
• Detector	Quad-matrix pyro IR element (IR filter 5µm ÷ 14µm)
• Sensitivity	Three levels fuzzy logic (jumper setting)
• Tamper detection	Back and front cover tampers
• Supervisory signals	Supervision, low battery, tamper, and alarm
RF TRANSMISSION SPECIFICATIONS	
• Frequency	H model: 868.35 MHz; G model: 433.92 MHz
• Range	200 meters (656 ft.) open field
• Supervision transmission	20 minute interval automatic supervision transmission including low battery transmit and indication
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
PHYSICAL SPECIFICATIONS	
• Dimensions (Diameter x H)	70.7 x 30.85 mm (2.783 x 1.215 in)
• Weight	84 grams (2.96 oz)

System Components

The PYR-3011 is compatible with Rosslare's wireless control panels and accessories, including: Homelogix™, safety sensors, sirens, and remote controls.



Additional Information

The PYR-3011 is a high-quality electronic product developed and manufactured under ISO9001:2000 and 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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