

# PYR-2011A

## Wireless Digital PIR Motion Detector



ROSSLARE'S PYR-2011A IS ONE OF A POWERFUL LINE OF HIGH PERFORMANCE INDOOR PASSIVE INFRARED (PIR) MOTION DETECTORS. THIS PIR PACKS ADVANCED FUZZY LOGIC ALGORITHM WHICH IMPROVES DETECTION AND REDUCES FALSE ALARMS. IT FEATURES STATE-OF-THE-ART SPHERICAL LENS OPTICS WITH MIRROR LOOK DOWN ZONES, A UNIQUE CURTAIN MASK ADAPTER, SELF-TEST AND OUT OF RANGE TEMPERATURE CAPABILITY, WALK AND RF TRANSMISSION TEST FUNCTIONS, AUTO POWER SAVE (APS) TECHNOLOGY, AND AUTOMATIC LOW BATTERY DETECTION, MAKING IT AN IDEAL AND ECONOMIC CHOICE FOR BOTH RESIDENTIAL AND COMMERCIAL SECURITY NEEDS.

### GENERAL DESCRIPTION

Rosslare's PYR-2011A is designed with a focus on quality and reliability as our top priority. The heart of the PYR-2011A is a high quality pyro-electric infrared energy sensor, an advanced digital nano-watt microcontroller, and an A to D signal analyzer. The optic pattern includes look-down (creep) zone protection using a mirror and curtain zones with a unique snap-in curtain mask that enables focused detecting, such as across window surfaces or down corridors. The PYR-2011A's many features include a fully sealed sensor chamber, easy-to-operate magnetic walk and RF transmission test, dynamic and static transmission modes, selectable sensitivity level, cover and wall tamper detection, and automatic low battery detection.

### MAIN FEATURES

- Broad 12 m (39.5 ft.) coverage at 90° angle
- Analog and digital motion analysis with internal ambient temperature compensation
- Unique "fast" curtain mask plastic for narrowed detection
- Single LED indication
- High sensitivity dual-element pyro-sensor, from world-leading manufacturers

- Optional swivel mounting bracket for mounting in flexible locations (BR-21)
- Attractive curved design, with a professional look and feel

### PROFESSIONAL GRADE FEATURES

- Selectable three sensitivity levels to meet the need of any environment
- Advanced spherical lens with SSFL mirror look-down, allows detection as close as 50 cm (19.5 in.) from its mounting location
- Continuous monitoring: Sends visual alerts in case of malfunction or temperature is out of range
- Draft and insect immune with a sealed chamber for optical components
- RF and walk test modes
- 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
- Compatible with Rosslare Security products from related series (H-Series: 868.35 Mhz; G-Series: 433.92 Mhz)

# SPECIFICATIONS

## OPTICAL SPECIFICATIONS

■ Lens type	Spherical with mirror SSFL look-down and adapter for curtain mask
■ Field of view	90° horizontal; 100° vertical
■ Max coverage	12 meters
■ Vertical adjustment	No

## ELECTRICAL SPECIFICATIONS

■ Battery	CR123A
■ Battery voltage and capacity	3v, 1300mAh
■ Input current	Standby 16 $\mu$ A; maximum 14mA
■ Battery life expectancy	Three years (typical usage)
■ Alarm signals	Red LED lights for two seconds
■ Detector	Dual-element low noise pyro-electric sensor
■ Sensitivity modes	Three levels fuzzy logic (jumper setting)
■ Arming timer	Two minutes fixed sleep time or ability to retrigger, 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)

## 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 H x W x D	127 x 80 x 63 mm (5 x 3.15 x 2.48 inch)
■ Weight:	112 g (0.25 lbs)

## SYSTEM COMPATIBILITY

The PYR-2011A is compatible with Rosslare's HomeLogix™ control panel and various high-quality Rosslare wireless accessories (in the same frequency), including: keypads, sirens, voice communicators, safety sensors, and remote controls.

## PRODUCT WARRANTY

2-year Limited Product Warranty

## ABOUT ROSSLARE SECURITY

Rosslare Security Products, a division of Rosslare Enterprises Ltd. manufactures high-quality security products since 1980. The company's three main lines: Access Control, Intrusion Detection and Guard Patrol, together with a growing product range have transformed Rosslare Security into a major worldwide force in security. Rosslare holds itself to the highest standards of customer service and manufacturing (ISO 9001:2008, ISO 14001:2004, ISO 13485:2003). The company complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

Visit our web site: [www.rosslaresecurity.com](http://www.rosslaresecurity.com)

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