

SA-01PW

Digital Wired PET Immune
Passive Infrared Motion Detector



Rosslare's SA-01PW is one of a powerful line of high-performance indoor passive infrared (PIR) motion detectors, ideal for residential, commercial and institutional applications where small to medium size animals are present. The SA-01PW is completely digital. It packs advanced features such as a high-powered PET lens and PET analyzing algorithms for differentiating between humans and animals, self-test functions, movement and speed analysis, selectable energy level, ultra-bright LED, and cover tamper detection.

GENERAL DESCRIPTION

The SA-01PW digital wired pet immune PIR motion detector is a high-performance intrusion sensor with advanced design ideal for residential and commercial applications.

The SA-01PW uses a lens with fuzzy logic implementing a special algorithm to improve human detection while at the same time ignoring pets and other animals, thus reducing false alarms.

The heart of the SA-01PW is a high quality pyro-electric infrared energy sensor incorporating advanced fuzzy logic technology for increased security assurance. The dual slope digital temperature compensation feature allows it to work in varied environmental situations.

The many features of the SA-01PW include a LED walk test, visual failure status detection, energy level selectable, and cover tamper detection.

The SA-01PW can be easily installed with universal bracket option.

MAIN FEATURES

- Power level discriminator: A special lens combined with a powerful algorithm ignores small to medium-sized animals while maintaining a high level of human detection
- Environment digital temperature compensation using to reduce false alarms and maintain constant detection

- Fuzzy logic algorithms energy detection system for improved detection and reduced false alarms
- Adaptive filter compensates for changes in a detected object's speed
- Internal calibration following mounting height installation
- Draft and insect immunity with a sealed chamber for the optical components
- Cover tamper switch protection against opening the cover, for higher security

PROFESSIONAL GRADE FEATURES

- Selectable energy level sensitivity: High or Low by jumper selection
- Continuous monitoring: Sends visual alerts in case of malfunction or temperature out-of-range alerts
- Walk test mode: Detection is indicated by a red LED (enabled or disabled) with an internal jumper for additional security
- Advanced micro-controller electronics and algorithms for superior movement speed spectrum analysis
- Input/output line protection for added resistance to transient shock, ESD, and RFI interference
- Selectable energy level sensitivity: High or Low by jumper selection

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

■ Input Power	Nominal 12 VDC 10 mA (9 to 16 V)
■ Alarm Signal	Red LED 2 seconds on (EN/DIS jumper)
■ Detector Type	Dual pyro IR element (IR filter 5 μ m \div 14 μ m)
■ Sensitivity	2 levels of fuzzy logic (jumper setting)
■ Speed Detect	0.2 m/s \div 5 m/s, Δ t = 1.1°C (0.66 ft/s \div 16.4 ft/s, Δ t = 2°F)
■ Pet Immune	Up to 25 kg (55.1 lb)
■ Temperature Compensation	Digital dual slope (+/- 1°C)
■ Alarm Relay	SSR 35V/100mA maximum N.C.
■ Tamper Switches	Cover tamper
■ Supervisory Signals	Electronic malfunction or temperature out of range is indicated by a flashing LED

OPTICAL SPECIFICATIONS

■ Lens Type	Pet immune multi-zone, high-density Polytilan type
■ Optical Filter	White light protection
■ Vertical Adjustment	By slot (+/- 2°)
■ Max. Coverage	14 x 14 m (46 x 46 ft)

ENVIRONMENTAL SPECIFICATIONS

■ Operating Environment	Indoor use only
■ 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

PHYSICAL SPECIFICATIONS

■ Dimensions (L x W x D)	90 x 65 x 52 mm (3.5 x 2.5 x 2.2 in.); fits US gang box
■ Weight	84.2 g (2.97 oz.)

SYSTEM COMPONENTS

The SA-01PW 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.

PRODUCT WARRANTY

2-Year Limited Product Warranty

ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration.

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