ISC-PPR1-W16 Motion detector, 60ft (18m)

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Invented for life

▶ 18 m x 25 m (60 ft x 80 ft) standard coverage; 8 m x 10 m (25 ft x 33 ft) selectable short range coverage

▶ Sensor data fusion technology

▶ Tri-focus optics technology

▶ Active white light suppression

▶ Dynamic temperature compensation

The ISC-PPR1-W16 Professional Series PIR Detector is exceptionally suited for commercial indoor applications. Sensor data fusion technology ensures that the detector sends alarm conditions based on precise information. Tri-focus optics eliminate coverage gaps and respond efficiently to intruders. The powerful combination of unique features in the Professional Series delivers superior catch performance and virtually eliminates false alarms. The self-locking two-piece enclosure, built-in bubble level, flexible mounting height, and three optional mounting brackets simplify installation and reduce service time.

Functions

Sensor Data Fusion Technology
Sensor data fusion technology is a unique feature that uses a sophisticated software algorithm to gather signals from multiple sensors: two pyroelectric sensors, a room temperature sensor, and a white light level sensor. The microcontroller analyzes and compares the sensor data to make the most intelligent alarm decisions in the security industry.

Tri-focus Optics Technology
Tri-focus optics technology uses optics with three specific focal lengths: long-range coverage, middle-range coverage, and short-range coverage. The detector applies the three focal lengths to 86 detection zones, which combine to make 11 solid curtains of detection. Tri-focus optics technology also includes two pyroelectric sensors, which deliver twice the standard optical gain. The sensors process multiple signals to deliver precise performance virtually free of false alarms.

Active White Light Suppression
An internal light sensor measures the level of light intensity directed at the face of the detector. Sensor data fusion technology uses this information to eliminate false alarms from bright light sources.

Field Selectable Coverage (18 m x 25 m or 8 m x 10 m)
Installers can use a DIP switch to select 18 m x 25 m or 8 m x 10 m (60 ft x 80 ft or 25 ft x 33 ft) coverage.

Dynamic Temperature Compensation
The detector automatically adjusts PIR sensitivity to identify human intruders at critical temperatures. Dynamic temperature compensation detects human body heat accurately, avoids false alarms, and delivers consistent catch performance at all operating temperatures.

Cover and Wall Tamper Switch
When an intruder removes the cover or attempts to separate the detector from the wall, a normally-closed contact opens to alert the control panel.

Self-adjusting LED
The LED brightness adjusts automatically to the surrounding light level. A blue light-emitting diode (LED) indicates an alarm condition and activates during a walk test.

Remote Walk Test LED
Users can enter a command through a keypad, a control center, or programming software to remotely enable or disable the walk test LED. Users can locally enable or disable the walk test LED through the DIP switch.

Alarm Memory
Alarm memory flashes the alarm LED to indicate stored alarms for use in multiple unit applications. A switched voltage from the control panel controls the alarm memory.

Solid State Relays
Solid state relays send silent alarm output signals to provide a higher level of security and reliability. An external magnet does not activate the relay. The solid state relay uses less current than a mechanical relay, providing longer standby capacity during a power loss.

Draft, Insect, and Small Animal Immunity
The sealed optic chamber provides immunity to drafts and insects, reducing false alarms. Small animal immunity reduces false alarms caused by animals less than 4.5 kg (10 lb), such as rodents.

Remote Self Test
A remote self test initiates when the walk test input switches to its true state. The alarm relay and alarm LED activate for four seconds following a successful test. The trouble relay activates, and the alarm LED flashes following a failed test.

Input Power Supervision
When the power is lower than 8 V, a low input power trouble condition activates the trouble relay and causes the LED to flash. The trouble condition clears automatically when power reaches or exceeds 8 V.

DIP Switch Programming
The following functions are all programmed using DIP switch settings:
- Remote Walk Test LED
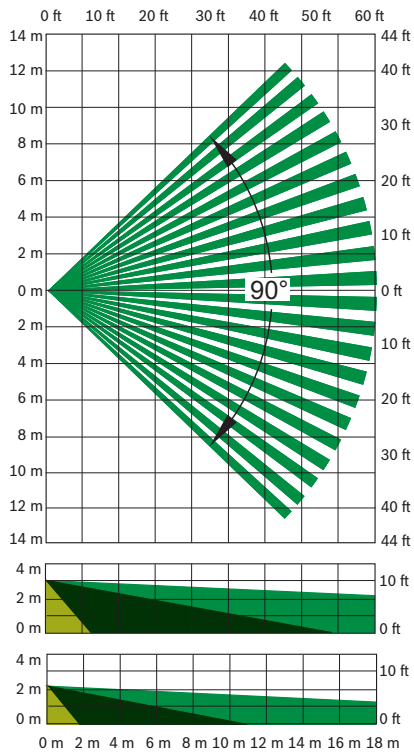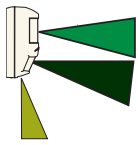- Long and Short Range Select

Trouble Memory
When the walk test input switches to its true state for less than two seconds, the LED flashes to indicate the most recent trouble condition. If there is no trouble in memory, the LED does not flash. After twelve hours, or after the detector receives a second walk test pulse for two seconds or less, the LED stops flashing and the trouble memory clears.
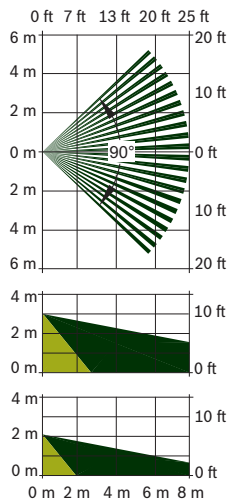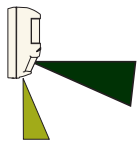
Certifications and approvals

Region	Regulatory compliance/quality marks	
Germany	VdS	G107504 [ISC-PPR1-W16]
Europe	CE	EN 55022:2006+A1:2007+A2:2010, EN 50130-4:2011, EN 60950-1:2006+A11:2009+A1:2010+A12:2011 KOE ISC-PPR1-W16 CE DoC 08162016
	EN50131	EN 50131-1, EN 50131-2-2:2008, Grade 2
	EN50131	G107504 [ISC-PPR1-W16]
Belgium	INCERT	B-509-0051
Russia	GOST	TC N RU Д-NL.MH09.B.00334 EAC
USA	UL	20190115; UL639 – Standard for Intrusion-Detection Units
	UL	ANSR BP1448 - Intrusion Detection Units tmpC42A
Canada	ULC	ANSR BP1448 - Intrusion Detection Units Certified for Canada
	ULC	CAN/ULC S306-03 - Canadian Standard for Intrusion Detection Units
France	CNPP	NF&A2P - 2620392660
China	CCC	2009031901000558 [ISC-PPR1-W16-CHI]

Installation/configuration notes

Long-range Coverage: 18 m x 25 m (60 ft x 80 ft)

Selectable Short-range Coverage: 8 m x 10 m (25 ft x 33 ft)

Mounting

The recommended mounting height is 2 m to 3 m (7 ft to 10 ft) with no adjustments required.
Mount the motion detector level, both horizontally and vertically.
Mounting options:

- On a flat wall (surface, semi-flush), with the optional B335-3 Swiveling low-profile mount, or with the optional B328 Gimbal-mount Bracket
- In a corner (the junction of two perpendicular walls)
- On the ceiling with the optional B338 Universal Ceiling-mount Bracket

Wiring Considerations

Recommended wire size is 0.2 mm^2 to 1 mm^2 (26 AWG to 16 AWG).

Parts included

Quantity	Component
1	Detector
1	Hardware pack • 2 Flat-head screws • 2 Screw anchors • 1 Nylon cable tie • 1 Pattern mask
1	Literature pack

Technical specifications

Electrical

Power Requirements

Voltage (Operating):	9 VDC to 15 VDC
Current (Maximum):	< 15 mA
Current (Standby):	< 10 mA at 12 VDC
Relay:	Solid state relay, normally-closed (NC) contacts, power supervised. 3 W, 125 mA, 25 VDC, resistance < 10 Ω
Tamper:	Normally-closed (NC) contacts (with cover on) rated at 25 VDC, 125 mA maximum. Connect tamper circuit to 24-hour protection circuit.

Mechanical

Enclosure Design

Color:	White
Dimensions:	127 mm x 69 mm x 58 mm (5 in. x 2.75 in. x 2.25 in.)
Material:	High-impact ABS plastic

Indicators

Alarm Indicator:	Blue alarm LED

Zones

Zones:	86

Environmental

Relative Humidity:	0 to 95%, non-condensing
Temperature (Operating and Storage):	-29℃ to +55℃ (-20℉ to +130℉) *For UL Certificated installations, 0℃ to +49℃ (+32℉ to +120℉)*
Protection Rating:	IP41, IK04 (EN 60529, EN 50102)

Ordering information

ISC-PPR1-W16 Motion detector, 60ft (18m)
Provides PIR, 18 m x 25 m (60 ft x 80 ft) coverage.
Order number **ISC-PPR1-W16**

Accessories

B328 Mounting bracket, gimbal
Mounts on a single-gang box and allows rotation of a detector. Wires are hidden inside.
Order number **B328**

B335-3 Mounting bracket, swivel, low profile
Swiveling, low-profile, universal bracket for wall mounting. The vertical swivel range is +10° to -20°, while the horizontal swivel range is ±25°.
Order number **B335-3**

B338 Mounting bracket, ceiling, universal
Swiveling universal bracket for ceiling mounting. The vertical swivel range is +7° to -16°, while the horizontal swivel range is ±45°.
Order number **B338**