aritech

PrecisionLine Series

Dual Technology Sensors

OVERVIEW

PrecisionLine™ dual technology motion sensors offer easy solutions for your most challenging residential, pet or commercial applications. Using a sophisticated combination of precision controlled microwave and passive infrared (PIR) technologies, these sensors give you total Coverage-on-Demand™.

PrecisionLine dual technology motion sensors reduce installation and training time since the installer is not required to make any complicated adjustments to the sensor. A jumper switch allows you to quickly select from a variety of precise range settings. Coverage-on-Demand ensures that the sensor detects only objects within a precise area, and not in adjacent rooms or outside—a common problem for less sophisticated dual technology sensors. With the RCR-PET model, each sensor is factory calibrated to ignore animals up to 80 lbs., while still detecting human-size objects.

The sensor works like sonar on a submarine, transmitting radar signals that "ping" the coverage area, then bounce back to the sensor on the same path. Objects that are out of the covered range are ignored. The sensor determines the attributes of an object by calculating its size and distance from the sensor. This allows it to ignore pets such as cats and dogs without any loss of detection.

For high security installations that require quicker detection, radar-only mode is available except in RCR-PET. Designed for flexibility, PrecisionLine sensors are the ideal solution for a variety of challenging commercial and residential applications.

STANDARD FEATURES

- Exclusive range-control technology
- Use radar-only mode for stealth mounting in high security applications
- RCR-50 extended 50' range version
- RCR-PET ignores animals up to 80 lbs.
- Patented Range-control dual technology (radar/PIR)
- Easy-to-change coverage pattern control
- Better false alarm immunity
- Better protection

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Specifications

Description	RCR-50	RCR-C	RCR-PET
Voltage	8.5 to 18VDC		
Current	27mA typ., 35mA max.	20mA typ., 27mA max.	20mA typ., 27mA max.
Time Delay	5 sec at ±10%		
Tamper Contacts Rating	40VDC, 100mA max.	NA	
Alarm Contacts Rating	28VDC, 100mA max.	40VDC, 150mA max.	40VDC, 30mA max.
Alarm Relay	Form C		Form A
Wiring Gauge	12-24 AWG		12-22 AWG
Range Settings	20 - 50 ft. (6 - 15m), adjustable	9 - 35 ft. (2.7-10.6m), adjustable	
Radar Frequency	5.8GHz		
PIR Lens Type	Fresnel		
Range of View	90°		
Operating Temp.	32°F~122°F (0°C~50°C)		
Relative Humidity	5%~93% (non-condensing)		
Mounting Height	7 - 9 ft. (2.1 - 2.7m)		7 - 8 ft. (2.1 - 2.4m)
Dimensions (HxWxD)	5.1 x 2.8 x 2.3 in. (130 x 71 x 58 mm)		
Weight	6 oz (170g)		
Housing	ABS, UL 94 V-0		
Colors	White		
Regulatory	FCC, UL, CUL		

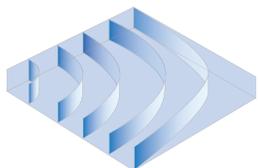## Ordering Information

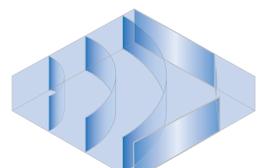|	
RCR-50	50' PrecisionLine™ Dual Technology Motion Sensor, Form C Relay, Tamper, Stealth Mode
RCR-PET	35' PrecisionLine Dual Technology Motion Sensor, Pet Immune Up to 80 lbs., Form A Relay
RCR-C	35' PrecisionLine Dual Technology Motion Sensor, Form C Relay, Tamper, Stealth Mode

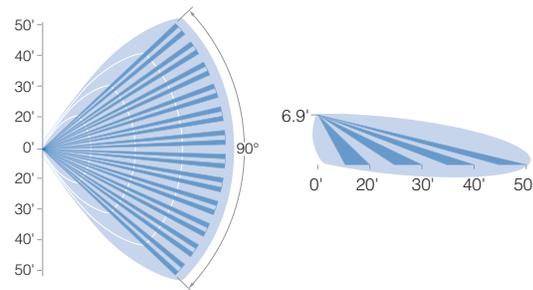## Dimensional Diagrams

Applications
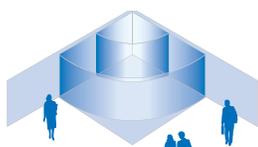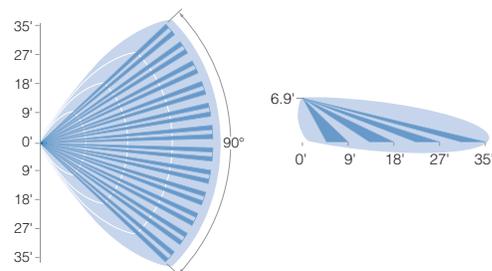

Pharmacy 18' Range

Warehouse 50' Full Range

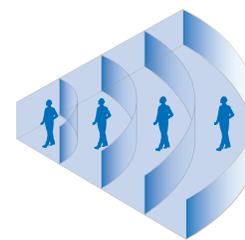Restaurant 35' Full Range

Lens Coverage

RCR-50

RCR-C, RCR-PET

Coverage-on-Demand™ Advantage

PrecisionLine provides four distinct coverage zones, each with separate alarm thresholds. It recognizes only the reflections from objects within the coverage area. Outer zones can easily be turned off via a jumper switch.

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