PrecisionLine™ Series

Dual Technology Sensors

Overview
PrecisionLine™ dual technology motion sensors offer new, 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 zone is factory calibrated to ignore animals up to 80 lbs, and still detect 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, the PrecisionLine sensors are ideal solutions 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**

Model numbers
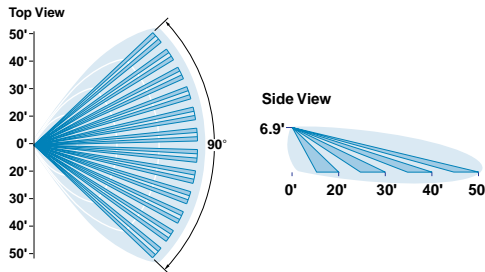
RCR-50, RCR-PET, RCR-A, RCR-C
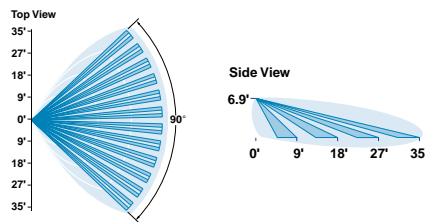
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Applications

*Pharmacy
18' Range*

*Warehouse
50' Full Range*

*Restaurant
35' Full Range*

Lens Coverage

RCR-50

Top View

50'
40'
30'
20'
0'
20'
30'
40'
50'

90°

Side View

6.9'

0'   20'   30'   40'   50'

RCR-A, RCR-C, RCR-PET

Top View

35'
27'
18'
9'
0'
9'
18'
27'
35'

90°

Side View

6.9'

0'   9'   18'   27'   35'

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.*

Specifications

Dimensions	*2.8 W x 2.3 D x 5.1" H (7.1 x 5.8 x 13cm)*
Color	*White*
Detection range	*50' (15.2m) x 90° 35' (10.7m) x 90°*
Microwave Frequency	*5.8GHz*
Mounting height	
RCR-50, RCR-A, RCR-C	*7-9' (2.1-2.7m)*
RCR-PET	*7-8' (2.1-2.4m)*
Field wiring size	
RCR-50, RCR-A, RCR-C	*12-24AWG*
RCR-PET	*12-22AWG*
Target velocity	*0.5 ft/sec to 5 ft/sec*
Alarm hold time	*5 sec ± 10%*
Environmental	
Operating temperature	*32° to 122°F (0° to 50°C)*
Relative humidity	*5-93% non-condensing*
Electrical	
Input voltage	*8.5-18VDC (10-16VOL)*
Typical current	*27mA*
Max current	*35mA*
Relay rating	*28VDC, 100mA max*
Range Settings	
RCR-50	*20, 30, 40, 50ft*
RCR-A, RCR-C, RCR-PET	*9, 18, 27, 35ft*

Ordering Information

	Model	Description	Listing
NEW	RCR-50	50' PrecisionLine Dual Technology Motion Sensor, Form C relay, tamper, stealth mode	C-UL-US, FCC
NEW	RCR-PET	35' PrecisionLine Dual Technology Motion Sensor, Pet Immune up to 80lbs, Form A relay	C-UL-US, FCC
	RCR-A	35' PrecisionLine Dual Technology Motion Sensor, Form A relay, stealth mode	C-UL-US, FCC
	RCR-C	35' PrecisionLine Dual Technology Motion Sensor, Form C relay, tamper, stealth mode	C-UL-US, FCC