Advanced Motion Sensor Technology

Reliable, accurate motion sensors play a critical role in security systems. GE Security offers professional security installers a robust product line using three advanced technologies –

PrecisionLine Series

Dual Technology Motion Sensors

PrecisionLine motion sensors combine two technologies – PIR and Doppler Radar technology. Unlike other dual technology

sensors that combine PIR and microwave technologies,
PrecisionLine sensors offer precise range control and accurate
detection. Since dual technology sensors require both technologies
detect an intruder before going into alarm, PrecisionLine sensors
have even better false alarm immunity than advanced single
technology sensors. The sensors will not alarm when a person
is beyond a set range. This technology has two patents.
The dual-technology RCR-REX uniquely combines typical PIR
technology with precise Doppler Range Controlled Radar for
access control applications.



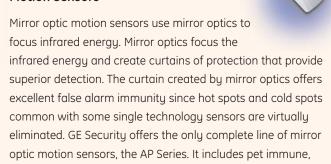
GE Security offers professional installers a variety of options to tackle the toughest installation challenges. Whether the application is commercial, residential, industrial or specialty, we have solutions that provide reliable detection and false alarm immunity.

Product Line Technology

Commercial Office Buildings, Retail Stores, Medical/Dental Offices, Day Care Centers, etc	PrecisionLine AP Series Fresnel Series	Dual Technology Mirror Optics Fresnel Lens	Range adjustments 9 – 90 feet Ceiling Mount and ultra 200' long range options Industrial and Harsh Environment options
Residential Single Family Homes and Apartments	PrecisionLine AP Series Fresnel Series	Dual Technology Mirror Optics Fresnel Lens	See pet immune sensor selector table for complete information
Specialty High security applications, wireless, addressable	PrecisionLine AP Series Fresnel Series	Dual Technology Mirror Optics Fresnel Lens	Stealth mounting option lets you install the sensor out of sight while it protects a precise area Anti-masking, wireless and addressable sensors options Industrial, intrinsically safe, and non-incendive

AP Series

Mirror Optic Passive Infrared (PIR) Motion Sensors



Fresnel Series

Fresnel Lens Passive Infrared (PIR) Motion Sensors

Fresnel lenses are specially designed pieces of thin plastic with molded grooves. The molded grooves of Fresnel lenses focus

long range, wireless and anti-masking models.



Applications with Pets

Pets pose a unique challenge for installers. The size, weight and number of animals can effect the way the sensor works in the application. GE Security offers a complete line of pet immune motion sensors for a range of applications.

	Weight	Number of Pets	Technology	Range	Sensor Size
PrecisionLine	Up to 80 lbs.	Multiple	Dual Technology	9,18,27,&35	Medium
AP950PI*	Up to 80 lbs.	. Multiple	Mirror Optics	35'	Large
AP100PI	Up to 44 lbs.	. 1-2	Mirror Optics	33'	Very Small
PI6000	Up to 30 lbs.	. 1-2	Fresnel Lens	40'	Small

* AP950PI offers selectable option of either a 50' standard mirror or a 35', 80 lbs., pet immune mirror.

USA T 888 GE SECURITY F 503 691 7566

Asia T 852 2907 8108 F 852 2142 5063

Australia T 61 3 9259 4700 F 61 3 9259 4799

Europe T 32 2 725 11 20 F 32 2 721 86 13

Latin America T 305 593 4301 F 305 593 4300

www.gesecurity.com

© 2005 General Electric Company All Rights Reserved Applications Tips

DO position the motion sensor so that an intruder must cross the sensor's field of view. This is especially important for single technology PIR sensors since an intruder must cross both the positive and negative elements of one zone of the PIR's sensor to trigger an alarm.

DO pre-test the sensor in the direction of likely intruder motion and walk-test monthly.

DO locate the sensor so that valuables are well within the coverage pattern.

DO terminate each protection zone on a solid object such as a wall or floor whenever possible. This provides maximum detection.

DO mask zones around fireplaces because a smoldering log can change temperature quickly if it bursts into flames.

industrial or specialty, we have solutions that provide reliable space detection and false alarm immunity.

Whether the application is commercial, residential,

You know GE as an innovative manufacturer of quality products. You've relied on GE over the years to make your life better and brighter in all kinds of ways. It's only natural that you would turn to a trusted brand to make your home or business secure. Call on GE for the highest technology and most reliable performance – as always.

DO consider the environment of the installation. Water, steam and oil can affect the way a standard sensor operates. Consider using industrial grade sensors for these types of applications.

DON'T aim single technology PIR sensors at sources of rapid heating or cooling. These include forced air ducts, space heaters, direct sunlight, strong white lights and mirrors that can reflect strong lights. Dual technology sensors are better suited for these types of applications.

DON'T obstruct the sensor's field of view. This is
 especially important for single technology PIR
 sensors. When obstructions are a concern
 (i.e., storage rooms) use an anti-mask sensor or dual technology sensor in radar only mode.

GE Security

Intrusion Detection Solutions





PrecisionLine Dual Technology Sensors Fresnel Lens Passive Infrared Sensors Mirror Optic Passive Infrared Sensors AP633A or AP633 6150 Series Long Range Mirror Optic PIR RCR-50 and RCR-90 Ceiling Mount Mirror Single Curtain Mirror Multi-range Fresnel Lens PIR Optic PIR Dual Technology Motion Sensors Dual Technology Request-to-Exit Optic PIR • 12 coverage patterns, 200' long range, 80' wide and 40' coverage in one sensor Advanced Digital Signal Processing and ASIC reduce false alarms • 360°, 60' diameter • Doppler radar and PIR Built in piezo sounder for door • 75' single curtain for technology combined position monitoring • 4D signal processing analyzes size, speed, shape and adaptive alarm threshold narrow spaces Ball swivel mount or fixed • RCR-50 Precise range settings • 180° shunt application Double pole, double throw, • 4D signal processing with • Standard Wide Angle, Extra Wide at 20, 30, 40 & 50' gliding focus mirror optics relay outputs Angle, Long Range, Single Beam Pet Alley, Pet Alley and Curtain • Mounts up to 16' high • 6 - 10' Mounting height • RCR-90 Precise range settings analyzes size, speed, • Easy adjustable range and angle (UL) AP633A shape and adaptive Coverage Patterns at 60, 70, 80 & 90' • Wall or ceiling mount alarm threshold • 6155 Form A • Mounts up to 16' high • 6157 Form C • 6155/6157-CT cold temperatures from -40° F to 420° F Commercial Curtain Single Beam Pet Alley (-40° C to 50° C) - (22.8m) $^-$ AP450 or AP450A RCR-A or RCR-C Dual Technology Motion Sensor 50' Range Mirror Optic PIR 2 in 1 Mirror Optic PIR 44 lbs Pet Immune Mirror Optic PIR Frensel Lens PIR with 30 lbs Pet Immunity Frensel Lens PIR Dual Technology Motion Sensor with 80 lbs Pet Immunity • ASIC-based signal processing & sophisticated motion verification • ASIC-based signal processing & sophisticated motion verification • 9 Curtain, 50' range • Offers two mirrors; 50' • Sleek, compact design • Doppler radar and PIR technology combined standard or 35' 80 lbs Pet Immune Doppler radar and PIR technology combined AP450 Form C with • Precise range settings at 9, 18, 27 & 35' 4D signal processing with gliding tamper, AP450A Form A focus mirror optics analyzes size, • 40' x 40' range • 35' x 35' range · Precise range • RCR-A (Form A) / RCR-C (Form C) 4D signal processing settings at 9, with relay speed, shape and adaptive • 30 lbs pet immunitu 18, 27 & 35' May be stealth with gliding focus mirror alarm threshold • Mounts up to 16' high mounted in optics analyzes size, • 44 lbs pet immunity • 80 lbs pet radar only speed, shape and immunity mode for adaptive alarm high security threshold applications • 7 - 10' Mounting height Standard Wide Angle Wireless Addressable Hazardous Environments PrecisionLine Series Industrial/Outdoor Dual Technology Motion Sensors: RCR-90, RCR-50, RCR-PET, RCR-A, RCR-C AP750-ID Mirror Optic PIR Mirror Optic PIR with Anti-Masking 6197/6198 Intrinsically Safe PIR System 60-880-95 (NX-482) 6187CTX and Non-Incentive PIR Anti-masking feature detects attempts • Compatible with GE Security • Compatible • Die-cast aluminum housing with gasket for to block the sensor's field wireless control panels • Cast metal PIR, both water resistant • Doppler radar and PIR technology combined with rugged installations NetworX and dust proof • Precise range settings from 9' – 90' • 7 curtains, • Standard 45' x 90°, Long range 70' x 6° or PinPoint • 9 curtains at 50' 50 ft. range • Standard 45' x 90°, Long range 70' x 6° Vertical Barrier 40' x 6° addressable at 6'-10' or Vertical Barrier 40' x 6° • 4D signal control May be stealth mounted in radar only mode behind mounting processing with rated (-40° to 120°) 13.7m panels heights gliding focus • 7 curtains, Wireless adaptable • 4D signal mirror optics use in hazardous 50 ft. range model available analyzes size, at 6'-10' speed, shape analyzes mounting and adaptive size, speed, heights alarm threshold shape and • 4D signal adaptive processing analyzes size, speed, alarm threshold shape and adaptive 0 10' 20' 30' 45' 3.0m 6.1m 9.1m 13.7m



Specialty

Residential