

Whether it's a residential or commercial installation, the LC series of detection devices readies a security system for the unexpected by providing protection for every room, corner and corridor. The LC-103-PIMSK is a dual-technology motion detector that combines passive infrared and microwave detection with anti-masking features. The anti-masking feature prevents intruders from defeating the detector by covering its field of view.



Product Features:

- ▶ Anti-masking
- ▶ Form 'A' alarm contact and tamper switch
- ▶ Digital signal analysis
- ▶ Slim profile design
- ▶ Features ABS plastic for shock and impact protection
- ▶ Exceptional white light immunity
- ▶ Pet immunity up to 25 kg (55 lbs)
- ▶ Quad Linear Imaging Technology for sharp analysis of body dimensions and differentiation from backgrounds and pets
- ▶ Microwave detection based on Doppler concept
- ▶ Unique microwave motion sensor module with micro-strip patch antenna
- ▶ Advanced ASIC-based electronics
- ▶ Height installation calibration free
- ▶ 2-way PIR/microwave sensitivity adjustment
- ▶ User-friendly installation with or without swivel-mount bracket (bracket sold separately)

Reliable Protection

Advanced ASIC-based processing provides both superior detection and false alarm rejection to help keep people and possessions secure. Quad Linear Imaging Technology provides sharp analysis of body dimensions and differentiation from backgrounds and pets.

Digital Signal Processing

Effective motion detection is dependent on a sensor's ability to identify intruders and provide true false alarm resistance. The LC series of detection devices pinpoints intruders through digital signal processing. Digital information is more accurately analyzed using software and is not subject to signal degradation caused by amplification, noise, distortion or signal clipping.

Anti-Masking

The LC-103-PIMSK features PIR and microwave sensors. The microwave sensor of the detector features two channels, one for microwave (MW) detection, and the other for anti-masking detection. The anti-masking feature works by sensing intruders from the distance of 0.8 m and closer. If the field of view of the detector is intentionally obscured by an intruder, the anti-masking relay opens (switches from NC to NO) and remains in this status until the PIR sensor is activated.

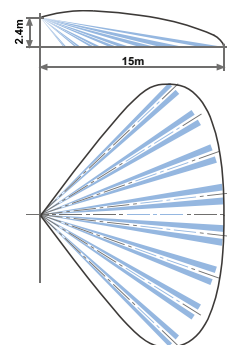
Pet Immunity

Highly accurate sensors are able to provide quality detection while at the same time ignoring pets weighing up to 25 kg (55 lbs).

Fast and Easy Installation

Once the detector is installed at the recommended height, installers simply conduct a brief walk-test, make any necessary adjustments, and the unit is ready to perform. Highly visible LEDs can be viewed at a glance and help the installer identify the detection range from any distance or angle within the coverage pattern.

Coverage Pattern



Locating the Detector

When choosing a location for the detector, be sure to consider the following:

- Do not aim the detector at reflective surfaces
- Avoid locations that are subject to direct high air flow
- Do not locate the detector in the path of direct or reflected sunlight
- Do not place next to large obstructions that may limit the coverage area

Detection Range Adjustment

The detection range of the motion detector is adjustable to about 3 m to 12 m (10' to 40'). A potentiometer can be adjusted clockwise or counter-clockwise to increase or decrease the range respectively. For optimum performance, range should be adjusted so that it effectively protects the dimensions of the intended area. The LC-103-PIMSK series is factory-set for 65%.

Caution: Microwave frequencies can penetrate walls and glass. Adjust range so that it does not extend outside the desired area of detection.

Specifications

Dimensions	118 mm x 62.5 mm x 41 mm (4.65" x 2.46" x 1.61")
Weight	97 gr (3.42 oz)
Detection Method	Quad (Four Element) PIR & Microwave Pulse Doppler
Power Input	8.2 to 16 Vdc
Current Draw (Standby)	18 mA
Current Draw (Active)	25.5 mA
Tamper Switch: Contact Rating	0.1 Amp @ 28 Vdc
RFI Protection	30 V/m 10-1000 MHz
EMI Protection	50,000 V

Ordering Information:

LC-103-PIMSK	10.525 GHz	Digital PIR and Microwave Detector with Anti-Masking and Pet Immunity
LC-103-PIMSK	9.9 GHz	Digital PIR and Microwave Detector with Anti-Masking and Pet Immunity
LC-103-PIMSK	10.687 GHz	Digital PIR and Microwave Detector with Anti-Masking and Pet Immunity