

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 and LC-104-PIMW are dual-technology motion detectors that combine passive infrared and microwave detection with pet immunity. LC-103-PIMSK also supports anti-masking. The anti-masking feature prevents intruders from defeating the detector by covering its field of view.



Product Features:

- ▶ Anti-masking (LC-103-PIMSK)
- ▶ Form "A" alarm contact and tamper switch
- ▶ Digital signal analysis
- ▶ 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

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 (LC-103-PIMSK)

The LC-103-PIMSK detectors feature PIR and microwave sensors. The microwave sensor features two channels, one for microwave (MW) detection, and the other for anti-masking detection. The anti-masking feature works by sensing objects or barriers that may block the detector field of view at a distance of 0.8 m (2.62') and closer. If the field of view of the detector is intentionally obscured by an intruder, the dedicated anti-masking output 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.

Locating the Detector

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

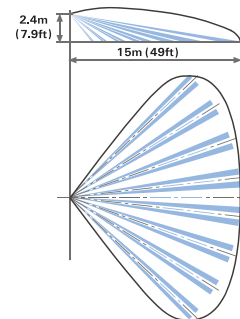
- Do not aim the detector at reflective surfaces
- Avoid locations that are subject to direct high air flow
- Do not locate the detector in the path of direct or reflected sunlight
- Do not place next to large obstructions that may limit the coverage area

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 detectors are factory-set for 50%.

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

Coverage Pattern



Specifications

Dimensions	118 mm x 62.5 mm x 41 mm (4.65" x 2.46" x 1.61")
Weight	102 gr (3.6 oz)
Detection Method	Quad (Four Element) PIR & Microwave Pulse Doppler
Power Input	9.6 to 16 Vdc
Current Draw (Standby)	20 mA
Current Draw (Active)	25 mA
Tamper Switch: Contact Rating	0.1 Amp @ 28 Vdc
RFI Protection	10 V/m plus 80% AM from 80-1000 MHz

Ordering Information:	
LC-103-PIMSK-W	PIR and Microwave Detector with Anti-Masking and Pet Immunity (10.525 GHz)
LC-103-PIMSK-IT	PIR and Microwave Detector with Anti-Masking and Pet Immunity (9.9 GHz)
LC-103-PIMSK-UK	PIR and Microwave Detector with Anti-Masking and Pet Immunity (10.687 GHz)
LC-104-PIMW-W	PIR and Microwave Detector with Pet Immunity (10.525 GHz)
LC-104-PIMW-IT	PIR and Microwave Detector with Pet Immunity (9.9 GHz)
LC-104-PIMW-UK	PIR and Microwave Detector with Pet Immunity (10.687 GHz)