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, LC-123-PIMSK, LC-104-PIMW and LC-124-PIMW are dual-technology motion detectors that combine passive infrared and microwave detection with pet immunity. LC-103-PIMSK and LC-123-PIMSK also support 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 / LC-123-PIMSK)
- Form “A” or “C” alarm contact and tamper switch
- Digital signal analysis
- Pet immunity up to 55 lbs (25 kg)
- 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
DSC LC Series of Detection Devices
PIR and Microwave Detector with Anti-Masking and Pet Immunity

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, LC-123-PIMSK)
The LC-103-PIMSK and LC-123-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 2.62’ (0.8 m) 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 55 lbs (25 kg).

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 10’ to 40’ (3 m to 12 m). 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

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

Ordering Information:

Form “A”
- LC-103-PIMSK-W . . . . PIR and Microwave Detector with Anti-Masking and Pet Immunity (10.525 GHz)
- LC-104-PIMW-W . . . . PIR and Microwave Detector with Pet Immunity (10.525 GHz)

Form “C”
- LC-123-PIMSK-W . . . . PIR and Microwave Detector with Anti-Masking and Pet Immunity (10.525 GHz)
- LC-124-PIMW-W . . . . PIR and Microwave Detector with Pet Immunity (10.525 GHz)

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