

1 INTRODUCTION

LC-202 is a dual technology detector consisting of a PIR and a microphone sensor for the notification of impacts and glass breakages. It has independent adjustments for the PIR and microphone sections. It has the maximum ranges of 7 m for the microphone section and approximately 12 m for the infrared section. The microphone section can be set for glass break only, or for both impact and glass break. There are different filter options available in order to raise or lower its sensitivity in detecting breakages/impacts.

2 INSTALLATION

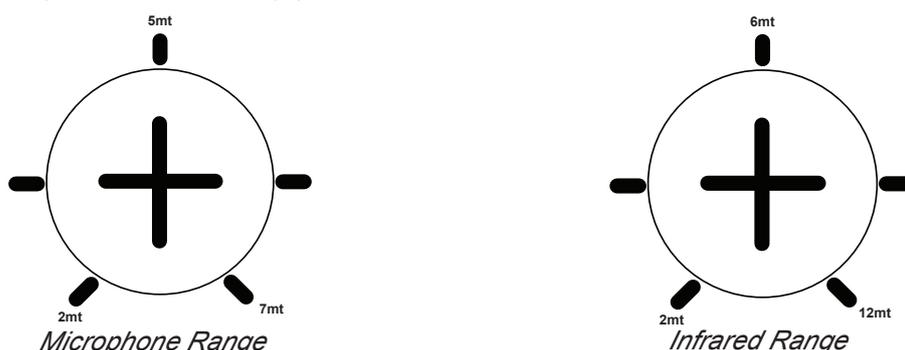
- Using a thin tool, push the round button on the bottom side of the detector and open the cover.
- Remove the circuit board from the bottom of the cover by disengaging the mounting clips on the side of the terminal.
- Drill holes in the knockouts that you want to use for fastening, or use the appropriate swivel (optional).
- Slide the connection cable through the guide on the back of the cover and pull it through the hole at the top.
- Wire the circuit following the wiring guide.

Note 1: The recommended fastening height is 2 m off the ground.

Verify that all DIP-Switches are in the desired position. (see diagram below).

Supply power and wait for the device to be operational (it is operational when the green LED stops flashing).

Turn the range trimmer so that the detector detects movement and breakages at the needed distance ("+" ⇒ longer range "-" ⇒ shorter range) after which the detector should be closed.



3 CONNECTIONS AND SETUP - DIP SWITCHES

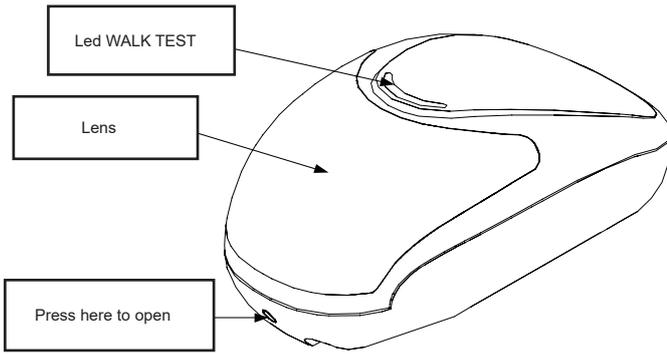
dip 1	dip 2	
off	off	one band frequency detection (high sensitivity)
off	on	two-band frequency detection (normal sensitivity)
on	off	one band plus impact frequency detection (low sensitivity)
on	on	two bands plus impact frequency detection (lower sensitivity)
dip 3 OFF		1-pulse infrared operation
dip 3 ON		2-pulse infrared operation

TERMINALS AND TRIMMERS

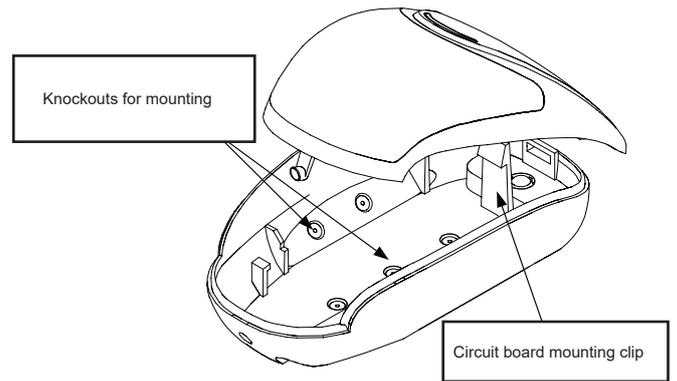
+ and -	Detector power supply 13.8Vdc
MIC	Microphone alarm output
PIR	Infrared alarm output
C	Common reference for alarms
TAMPER	Detector tamper terminal (N.C.)
MIC Trimmer	adjusts the microphone sensitivity range ("+" ⇒ longer range "-" ⇒ shorter range)
PIR Trimmer	adjusts the infrared sensitivity ("+" ⇒ longer range "-" ⇒ shorter range)

Note: Since this detector has an audio microphone, it is recommended to install the detector away from particularly strong sound sources.

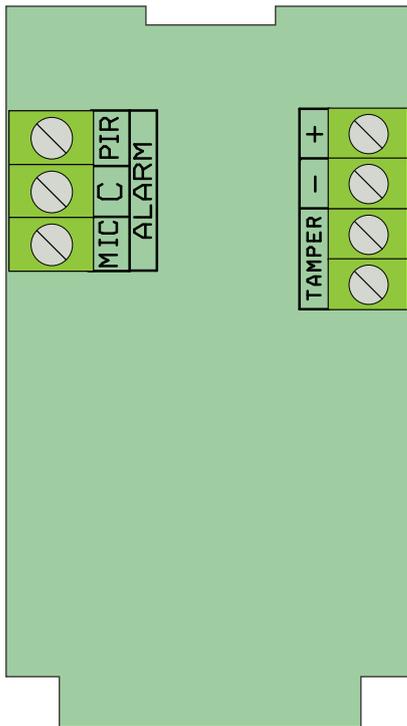
4. General View



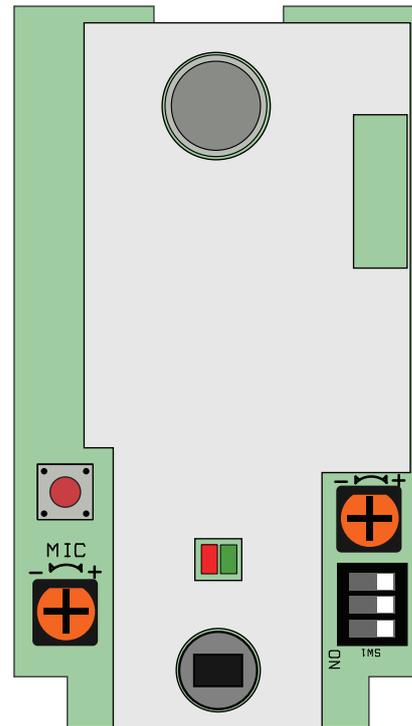
5. Inside View



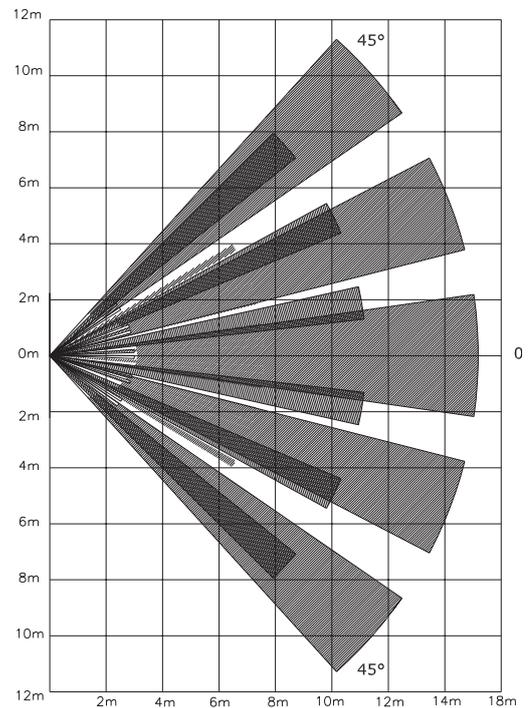
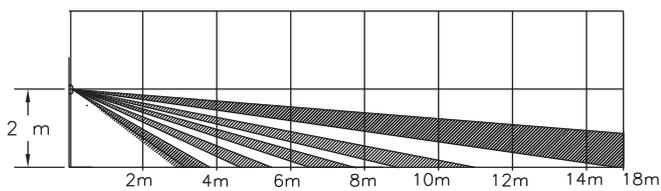
6. TERMINALS



7. BOARD



8. LENS



TECHNICAL SPECIFICATIONS

<i>Power Supply</i>	<i>9 to 15 V $\overline{\dots}$</i>
<i>Power Consumption: (Alarm/Stand-By)</i>	<i>(23 mA/19mA) @ 13.8V $\overline{\dots}$</i>
<i>Rated Voltage</i>	<i>13.8V $\overline{\dots}$</i>
<i>Range: PIR/MIC</i>	<i>12 m/7 m</i>
<i>Width Range:</i>	<i>90°</i>
<i>PIR:</i>	<i>2 elements</i>
<i>Lens (patterns and levels):</i>	<i>18 patterns on 3 levels</i>
<i>Alarm Duration:</i>	<i>2 sec.</i>
<i>Tamper protection:</i>	<i>✓</i>
<i>Creep Zone:</i>	<i>✓</i>
<i>Alarm Contact:</i>	<i>100 mA - 40 V - 2.5 - 16 Ω</i>
<i>Tamper Contact:</i>	<i>Max 40 mA - 30 Vdc</i>
<i>Operating Temperature:</i>	<i>From -10°C to + 55°C</i>
<i>Storage Temperature:</i>	<i>From -20°C to +60°C</i>
<i>RFI Protection:</i>	<i>30 V/m (80/2000 MHz)</i>
<i>Led WALK TEST (MIC and PIR)</i>	<i>✓</i>
<i>Cover Material</i>	<i>ABS</i>
<i>Accessories:</i>	<i>Swivel joint</i>
<i>Dimensions:</i>	<i>110 x 60 x 46 mm</i>



All of our products comply with the requirements of IEC 79-2 2nd ed. 1998 + Ab 2000.

Installation must be carried out by trained personnel according to professional standards.

The manufacturer accepts no responsibility if the product is tampered with by unauthorized persons.

The alarm system should be checked for proper operation at least once a month. However, a reliable electronic alarm system does not prevent intrusion, robbery, fire or anything else but merely decreases the risk of such situations occurring.

© 2022 Johnson Controls. All rights reserved. JOHNSON CONTROLS is a registered trademark. Unauthorized use is strictly prohibited.