

LC-171 Outdoor Detector

Installation Instructions

General:

The LC-171 is a Double PIR and MW outdoor detector. The detector has an internal element that has 90° coverage area. The detector element (which includes both PIR and MW detectors) can be adjusted horizontally inside the plastic cover, so its 90° coverage may vary between 0° and 180°.

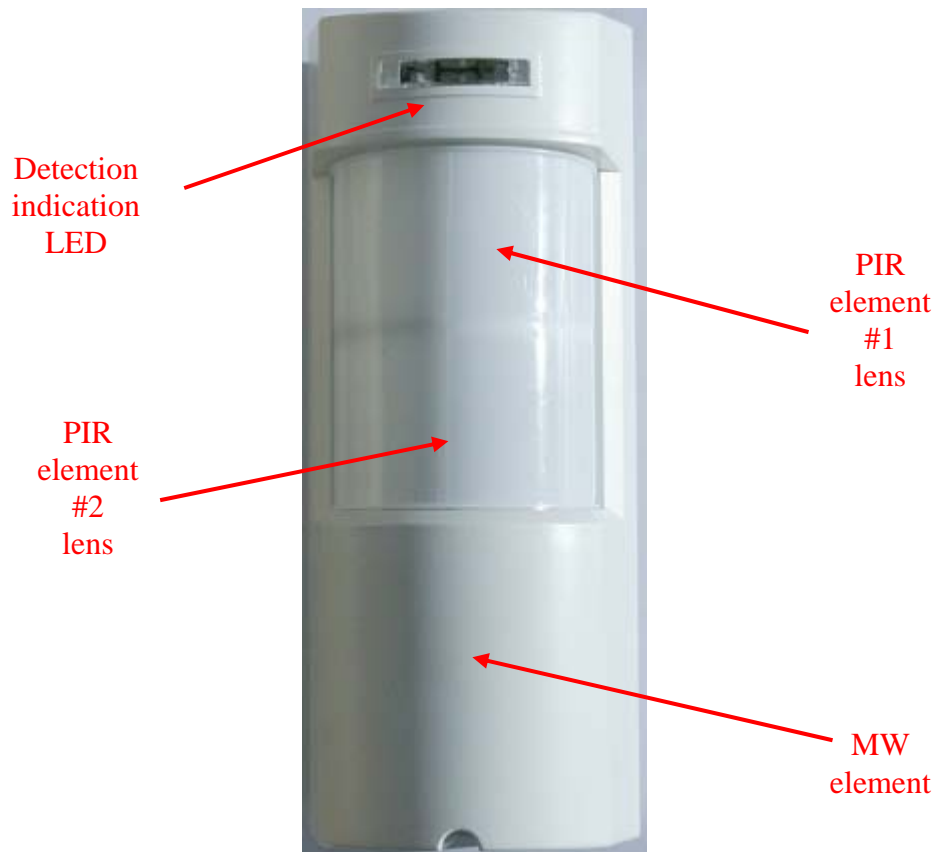


Fig. 1: External view

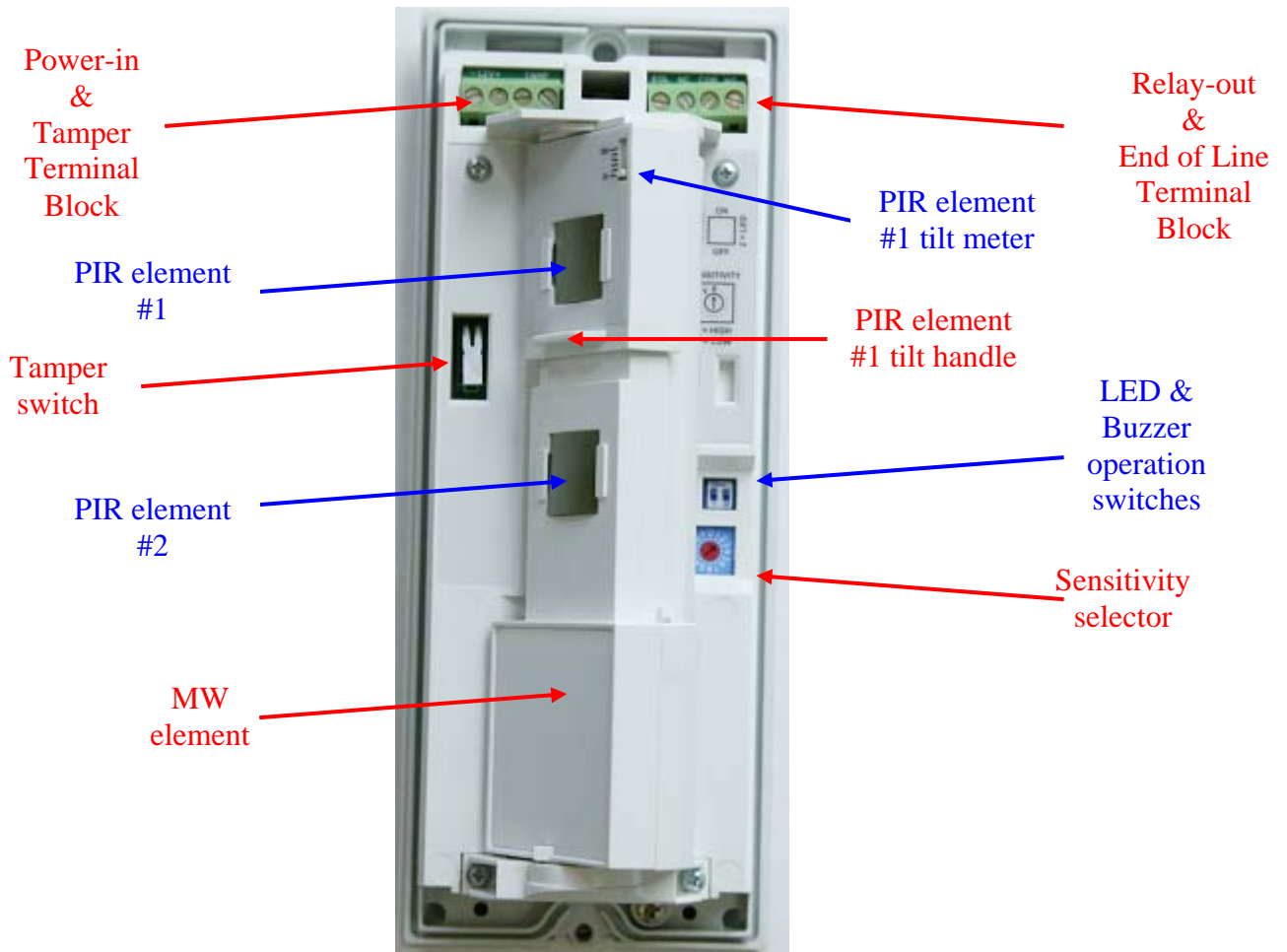


Fig. 2: Internal view

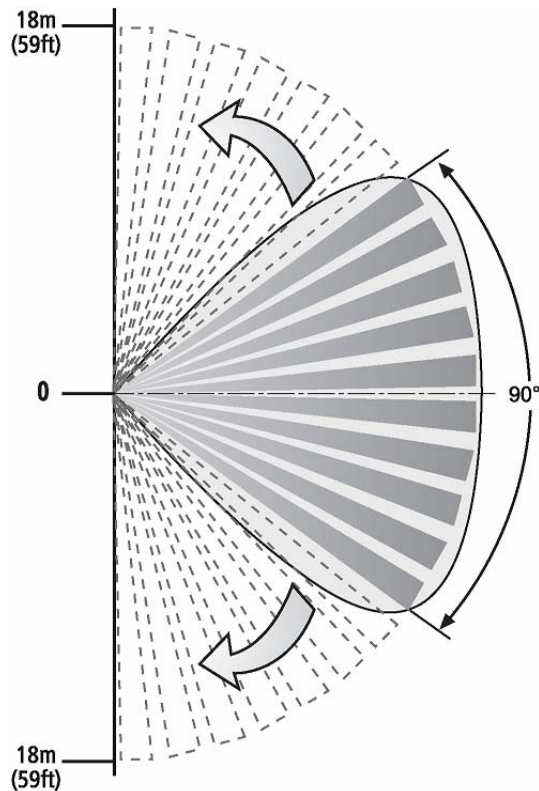


Fig. 3: Detection pattern

Installation:

The LC-171 can be installed either on a wall or poll using a metal mounting bracket, supplied with the detector.



Fig. 4: Rear bracket



Fig. 5: Metal-Band usage

Using the mounting bracket, the LC-171 is to be installed according to the following drawing:

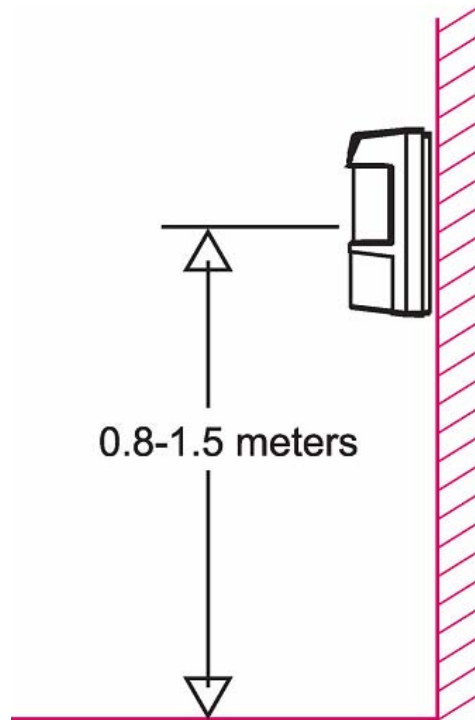


Fig. 6: Installation height

The LC-171 has an internal slider by which the detection distance of PIR element #1 may be changed. Sliding the element's plastic cover up or down, it changes the focus of the Pyro element relative to the optical lens. Note that, the distance of PIR element #2 cannot be changed and is set to horizontal view.

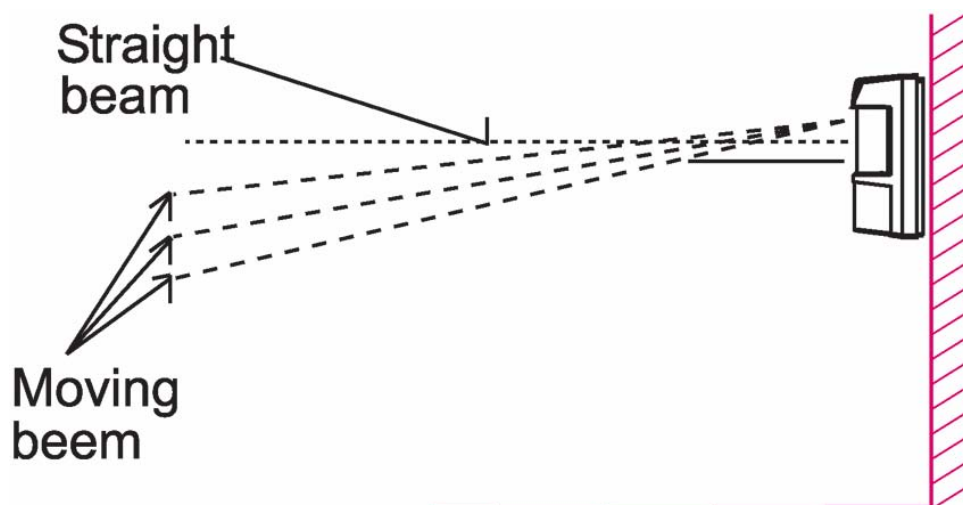


Fig. 7: Distance adjustment

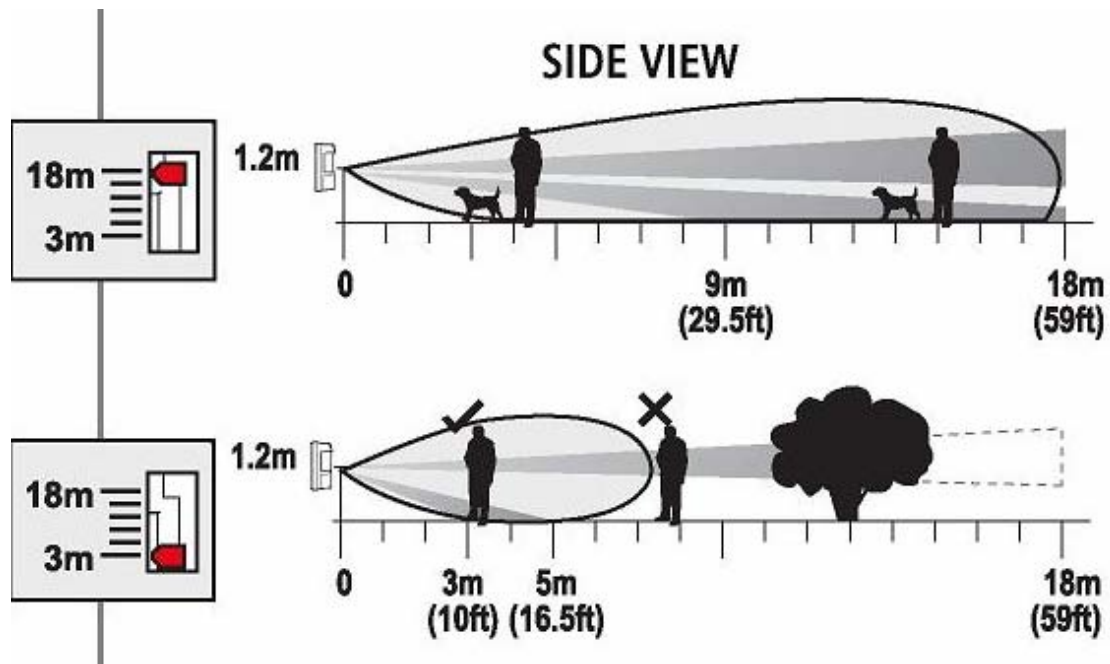


Fig. 8: Distance adjustment

Sensitivity adjustment:

The sensitivity is determined by a selector / rotating switch, located inside the detector.

The rotating switch is marked with digits from "0" to "9" and following letters from "A" to "F" so "0" is maximum sensitivity and "F" is minimum sensitivity.

Changing the sensitivity affects PET immunity and immunity to environmental noises and may also affect the detection distance.



Fig. 9: Sensitivity selector

Installer setup options:

The installer has an option to control two signals generated by the LC-171: buzzer and LED.

These indication signals may be turned on or off using inside deep-switches.



Fig. 10: Signals switches

Technical Specifications:

Detection Method	Double PIR AND MW
Power Input	9.6 to 16Vdc
Current Draw	Active: 24mA ($\pm 5\%$) Standby: 21mA ($\pm 5\%$)
Temp Compensation	Yes, Dual slop temperature compensation
Alarm Period	2 sec (± 0.5 sec)
Alarm Outputs	NC NO Common End Of Line 28Vdc 0.1 A with 10 Ohm
Tamper Switch(s)	Two Switches N.C 28Vdc 0.1 A with 10 Ohm Series protection resistors Open when cover or base are removed
Warm up Period	60sec (± 5 sec)
LED Indicator	LED is ON during ALARM
RF Immunity	10 V/m plus 80% AM from 80 MHz to 2GHz
ElectroStatic Immunity	6kV contact, 8kV air
Transient Immunity	1kV
Operation Temp	-10°C ~ +50 °C
Dimensions	200mm x 86mm x 80mm
Weight	500gr.

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