Micro-X

Location of the Detector

Consider the following before mounting the detector:

- Select a location from which the pattern of the detector is most likely to be crossed by a burglar, should there be a break in.
- Avoid a location that comes in direct contact with radiators, heating/cooling ducts or air conditioners.
- Do not place the detector in front of windows subject to direct sunlight or drafts.
- Do not place bulky objects in front of the detector.
- Microwave energy will pass through glass and most construction walls, point the unit away from outside traffic and rotating machinery.

Installation Instructions

- 1. **Open the housing** by removing the front cover. To do so, press the tab located on top of the detector.
- Remove the PCB by unscrewing the PCB screw from the rear of the protective plastic casing. Note: Do not touch the face of the PYRO sensor.
- 3. Knock out the required mounting and wiring holes.
- Thread the wires through the wiring holes (from the outside of the unit) using the appropriate wiring hole knock outs. Note: Electronics Line recommends using 20-22 AWG connection cable.
- 5. **Choose a mounting height** between 2.1m and 2.3m and attach the base to the wall.
- 6. Connect the wires to the terminal block see Figure 2.
- Mount the PCB and replace PCB screw. For maximum PIR range, slide the PCB upwards so that the screw is opposite the MX mark.
- 8. Attach the front cover, making sure to click the plastic housing closed.

Operation and Adjustment

Warm-up time: The detector needs to warm up for the first 90 seconds after applying power.

Fluorescent light interference filter: The Micro-X incorporates a filter that prevents false alarms from the MW section triggered by electro-magnetic fields generated by fluorescent lights, electric motors, etc. This filter must be set according to the local AC mains power frequency. To choose the frequency, install jumper JP3 according to Figure 3 – see Figure 1 for jumper location.



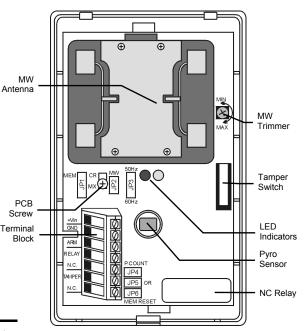


Figure 1: Micro-X (cover off)

+Vin

GND 2

RELAY

TAMP

SP

1

3

4

N.C. (5

6

N.C. (7

9 -16VDC Voltage Input

Not Used

Relay Contacts

Relay Contacts

Alarm

Tamper

Figure 2: Wiring Connections

Vertical adjustment: To position the PCB, loosen the PCB screw and slide the PCB up or down to the required setting. The detector's coverage area is 12m x 12m when the PCB is positioned at MX.

Setting the pulse counter: The pulse counter controls the amount of pulses that need to be detected before the detector will generate an alarm. Insert jumper JP4 for 1-Pulse mode, remove for 2-Pulse mode – *see Figure 1 for jumper location*.

MW sensitivity: Adjust microwave sensitivity by turning the trimmer clockwise to increase sensitivity or counter-clockwise to decrease sensitivity. Do not set microwave sensitivity higher than required, refer to the walk test procedure below.

Walk testing the detector: A walk test is performed in order to determine the coverage pattern of the detector. To do so, walk across the scope of the detector according to the detection pattern selected. Confirm that the red PIR LED and the green MW LED indicators activate and deactivate accordingly. This test should be performed weekly.

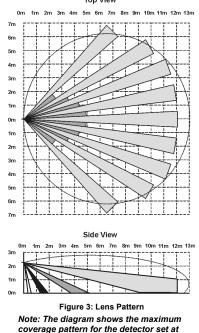
LED disable: Jumpers JP1 (PIR LED) and JP2 (MW LED) are used to enable or disable the LED indicators – *see Figure 1 for jumper location*. Insert the jumper to enable the LED and remove the jumper to disable. *Note: Only disable the LEDs after successfully walk testing the detector*.

AND/OR function: In AND mode, the detector generates an alarm as a result of microwave <u>and</u> PIR detection. In OR mode, the detector generates an alarm if either the PIR <u>or</u> microwave detect motion. Insert jumper JP5 for OR mode, remove the jumper for AND mode – see Figure 1 for jumper location.

Changing lenses: To change a lens, release the lens frame using a screwdriver and fix the new lens into place with the smooth side facing outwards. Verify that the word TOP is located at the top of the lens (alternatively a notch may appear on the bottom edge of the lens) before snapping the lens frame back into place.

Technical Specifications

Operating Voltage: 9 - 16VDC Current Consumption: Standby 26mA@12V Max. (Alarm) 43mA@16V Coverage: 12m x 12m Pulse Count: 1 or 2 selectable Pvroelectric Sensor: Dual element Microwave Antenna: Built-in patch Microwave Frequency: 10.525, 10.687, 9.9 or 9.3GHz Alarm Output: N.C., dry contacts Switching Voltage: 30VDC not to exceed 10W Switching Current: 0.3A not to exceed 10W Alarm Duration: 2 seconds Tamper Switch: N.C. Contact Rating 30VDC, 50mA max. Operating Temperature: -10° to 60°C Temperature Compensation: Thermistor Reverse Polarity Protection: Diode Fire Protection: ABS plastic housing LED Indicators: Selectable Dimensions: 104 x 64 x 50mm Weight: 103g



a vertical adjustment of 0°.

Electronics Line

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