PASSIVE INFRARED &
MICROWAVE COMBINATION DETECTOR
W / IMMUNITY

MX-40PI

Optex Now Provides Unprecedented Reliability in Detection Performance by Integrating New Microwave Technology and Our State-of-the-Art PIR Technology

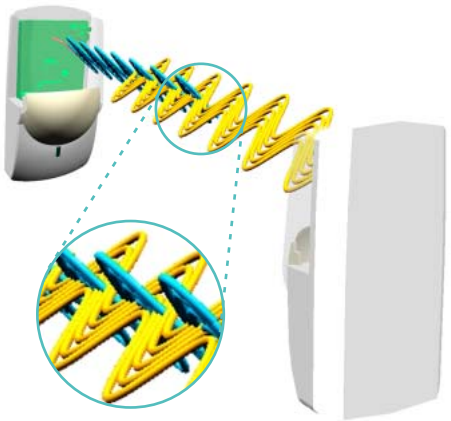
High-Grade Sensing Performance from a Combination of Microwave an
Easy Installation and Compact, Attractive Design – The MX-40PI Satisfies

Microwave Technology

Anti-Crosstalk System (Patent Pending)

Optex utilizes a unique microwave technology in designing the antenna settings for the MX-40PI. The result is a non-conventional "Anti-Crosstalk System" which prevents interference from other microwaves. Reducing interference enables the MX-40PI to prevent false alarms typically caused by numerous matching frequencies in one single area. Complete with a "Noise Reduction Circuit" the MX-40PI is able to cancel noise that enters the antennas, thus eliminating microwave interference.

The high quality, highly reliable MX-40PI is the solution for false alarms caused by outside microwave interference.



OPTEX Design and
Quick and Easy Installation w

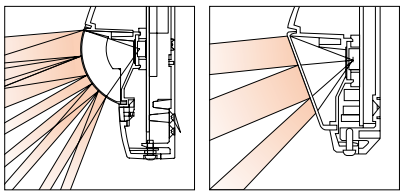
- Easy installation and wiring are engineered into this compact housing.
- Easy Microwave Area Adjustment:
  - Long or Short Distance Selector Switch

Improved Performance with
and Passive Infr
Optex Design and Innovation Provide High

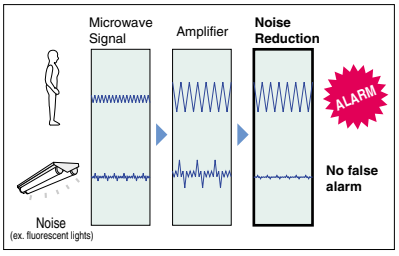
1 High Reliability

Ideal Detection Area
The MX-40PI creates an integrated detection area. This enables the microwave detection area to synchronise to the PIR detection area, achieving higher detection performance and preventing errors and false alarms.

Spherical Lens Design
With uniform distance between each lens segment and the pyroelectric elements, the spherical lens provides a precise focal length to each of the multiple lens segments. This enables each lens segment to precisely face its detection area and creates detection zones without distortion, achieving a new level in lens design precision. The lens has a unique spherical design which makes it highly resistant to damage and outside disturbances.

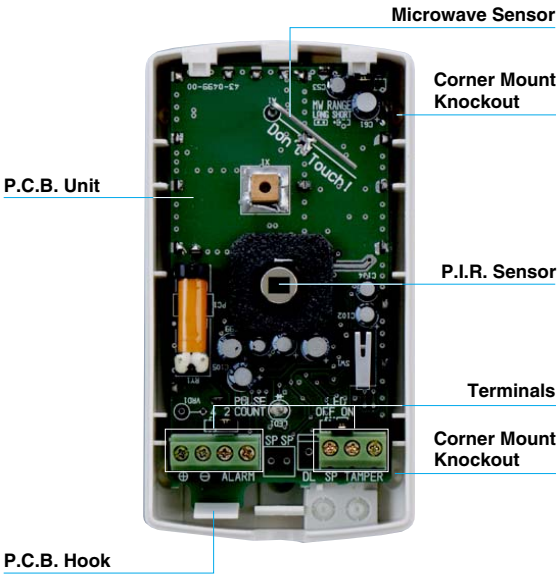


Noise Reduction Function
The Noise Reduction Circuit provides reliable performance against outside noise such as electromagnetic interference and noise caused from fluorescent lights. As a result, the possibility of false alarms is greatly reduced.



d PIR Technology.
All of Of Your Detection Needs

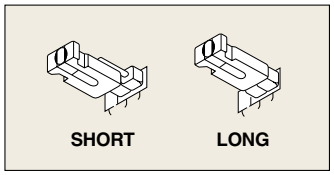
Modern Technology
ith Unique Compact Housing



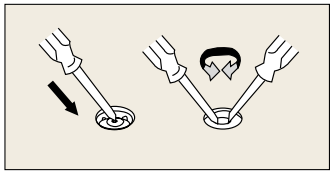
Reliability from Microwave ared Integration
Reliability using Combination Technology

2 Easy Installation

Easy Microwave Range Selector
The MX-40PI allows for a simple two step adjustment. Setting the range selector to short or long range detection, according to the room size, makes adjustment during installation much easier and less time consuming.



Easy Wiring Knockouts
The PC board is removable for simple wiring. With the simple use of a screwdriver, a firm tap will easily remove the knockout.



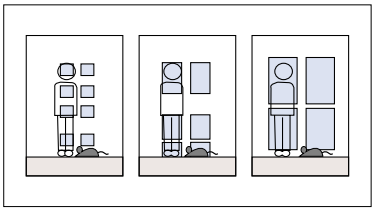
3 Compact, Stylish Design

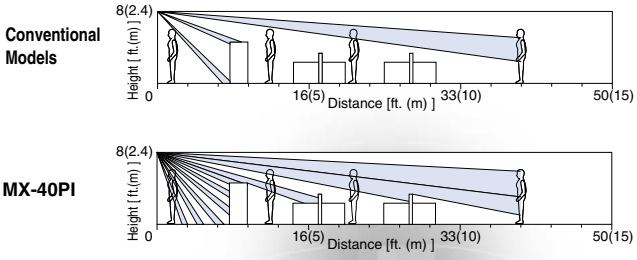
The compact and stylish body matches any interior design without disturbing the decor.

Passive Infrared Technology

Quad Zone Logic (Patent Listed)

The highly accurate and reliable detection pattern will maintain its sensitivity through the entire detection area, even in high temperature or low contrast environments. Quad Zone Logic creates an extremely high vertical zone density, two or three times the size of conventional PIRs. These taller zones capture the entire body mass and enable detection of even the smallest temperature contrast against the background. In addition, the vertical detection density has been improved to take into account dead zones created by furniture or partitions.



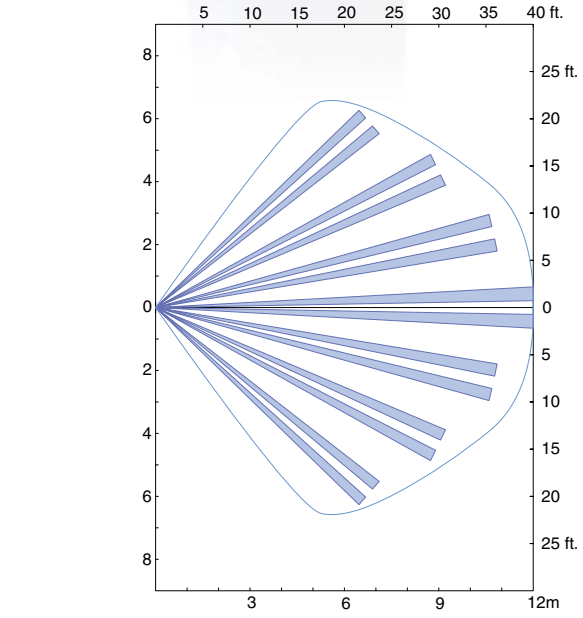


◎OPTIONAL BRACKETS

FA-3

Compact Wall & Ceiling Mount Bracket
Adjustable ±45° Horizontally,
0-10° Vertically Downwards

◎DETECTION AREA



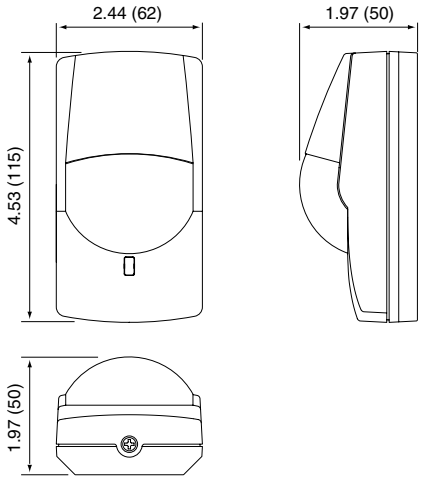
*Specifications and design are subject to change without prior notice.

NOTE: This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion. This product conforms to the EMC Directive 89/336 EEC.

◎SPECIFICATIONS

MODEL	MX-40PI
Detection method	Passive Infrared and Microwave
Coverage	40ft. x 40ft. (12m x 12m) 85° wide
Detection zones	78 zones (PIR)
Mounting height	5 - 8ft. (1.5 - 2.4m)
Sensitivity	3.6° F (2° C) at 2ft./sec. (0.6m/sec.)
Detectable speed	1 - 5ft./sec. (0.3 - 1.5m/sec.)
LED alarm indicator	Switchable ON/OFF
Alarm period	Approx. 2.5 sec.
Alarm output	N.C., 28V DC⎓ 0.2A max.
Pulse count	Approx. 20 sec. 2 or 4
Warm up period	Approx. 1 min.
Power input	9.5 - 16V DC⎓
Current draw	18mA (max.) at 12V DC⎓
Weight	3.9oz. (110g)
Operating temperature	14° F - 131° F (-10° C - +55° C)
Environmental humidity	95% max.
Microwave frequency	2.45GHz (FCC, IC, ETS300-440 approval)
RF interference	No Alarm 20V/m

◎DIMENSIONS



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