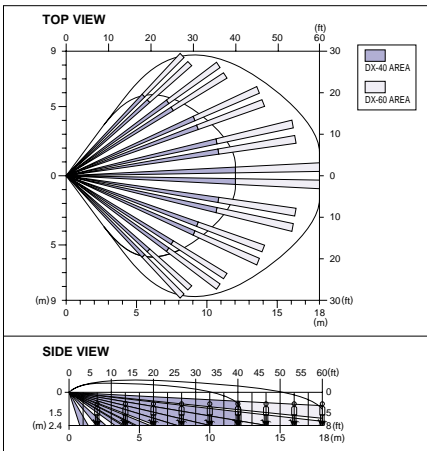


DX-40/60PLUS Enhanced Model



- Separate Relay Output for Automatic Trouble Monitoring
- Alarm Memory, Selectable Positive or Negative Input
- LED Remote On/Off Control Input from Control Panel

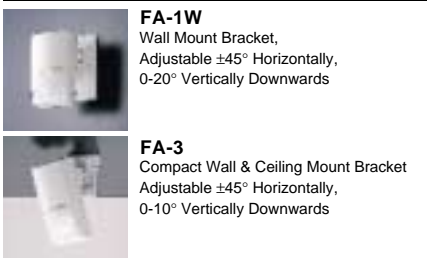
DETECTION AREA



SPECIFICATIONS

Model	DX-40	DX-60
Detection method	Passive Infrared and Microwave	
Coverage	40ft x 40ft (12m x 12m) 85° wide	60ft x 60ft (18m x 18m) 85° wide
Detection zones	82 zones (PIR)	
Mounting height	5 - 8ft (1.5 - 2.4m) 3.6 F (2°C)	6 - 8ft (1.8 - 2.4m) 3.6 F (2°C)
Sensitivity	at 2ft/s (0.6m/s), 40ft (12m)	at 2ft/s (0.6m/s), 60ft (18m)
Detectable speed	1 - 5ft/s (0.3 - 1.5m/s)	
Alarm period	Approx. 2 sec	
Alarm output	N.C. 28VDC 0.2A max.	
Tamper switch	N.C., Open when cover is removed.	
Warm-up period	Approx. 30 sec	
LED indicator	Flicker during warm-up RED : ALARM, ALARM MEMORY and TROUBLE indicator YELLOW : MW and TROUBLE indicator GREEN : P.I.R. and TROUBLE indicator	
Power input	9 - 18VDC	
Current draw	12mA (normal), 35mA (max.) at 12VDC	
RF interference	NO Alarm 30V / m	
Operating temperature	14°F - 122°F (-10°C - +50°C)	
Environment humidity	95% max.	
Microwave frequency	10.525GHz	
Weight	5.3oz (150g)	
Model	DX-40PLUS, DX-60PLUS	
Current draw	17mA (normal), 40mA (max.) at 12VDC	
D.L. terminal	****	
Alarm memory	****	
Trouble output	N.C., 28VDC 0.2A max.	
Microwave frequency	10.525GHz	

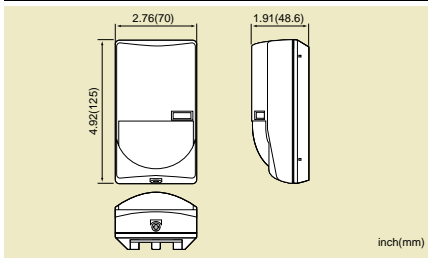
OPTIONAL BRACKETS



FA-1W
Wall Mount Bracket,
Adjustable ±45° Horizontally,
0-20° Vertically Downwards

FA-3
Compact Wall & Ceiling Mount Bracket
Adjustable ±45° Horizontally,
0-10° Vertically Downwards

DIMENSIONS



*Specification and design are subjected 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 security product category of EMC Directive 89/336 EEC.



INTEGRATED PASSIVE INFRARED & MICROWAVE DETECTOR

DX-40/60 STANDARD 40/60 PLUS



Combining Quad Zone PIR Technology and Unique Microwave Detection

DX-40/60 models are the result of Optex's advanced research with PIR and Microwave technology. Unique advancements include Patent-Pending "Microwave Area Shaping Technology" and Spherical Lens PIR technology with Quad Zone Logic. The design of this product offers easy, trouble-free installation in a compact and attractive housing. These models have features necessary to accommodate virtually any installation.



5 Year Warranty



OPTEX CO., LTD. (ISO 9001 Certified by LRQA)
4-7-5 Nirohama Otsu, 520-0801 Japan
TEL:077-554-4547 FAX:077-552-9522

OPTEX INCORPORATED
1845 W. 205th St. Torrance, Ca. 90501-1510 U.S.A.
TEL:310-553-1500 FAX:310-553-5970

OPTEX (EUROPE) LTD. (ISO 9002 Certified by NQA)
Cleverton Road, Condralls Park, Maidenhead, Berkshire, SL6 7BU U.K.
TEL:01628/631000 FAX:01628/636311

Optex Integrated Technology offers New Dimensions in Sensing Performance

Microwave Technology

Patent Pending "Area Shaping Technology"

Optex Research and Development Department have created a breakthrough in Microwave Detection. The DX-40/60 reduces one of the biggest weak points of microwave detection, that is the penetration of walls and unwanted detection of movement outside the coverage area. In addition, the detection area has uniform sensitivity which minimizes false activation's caused by spot movement in the detection area, i.e. small animals. The DX-40/60 is a new dimension in microwave technology.

- Microwave Range Selector
- Trouble Output Selector (DX-40/60 Only)
- Microwave Unit*
- Detection Mode Selector
- P.I.R. Sensor
- Alarm Memory Selector (DX-40/60 PLUS Only)
- LED ON/OFF Switch
- 3 LED Indicators
- Tamper Switch
- Terminals
- Easy Knockout
- Microwave Sensitivity Adjustment
- Lens

* The shape of Microwave Unit is different by its frequency.

Passive Infrared Technology

Patented Quad Zone Logic with New Spherical Lens

By utilizing Optex Advanced Optical Technology, the DX-40/60 creates evenly distributed sensitivity throughout the detection area. Accurate focus creates even sensitivity and high resistance to spot temperature changes. Other detectors may have inconsistent detection creating hot spots (false alarm can occur) and dead spots (no detection). In addition, the New Spherical Lens contributes to a superior aesthetic appearance which end users will appreciate.

OPEX Design and Mechanical Technology

Quick and Easy Installation with Unique Compact Housing

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

Integrated Microwave & Passive Infrared Technology

- Improved Tolerance to Spot Movements
- No Temperature or Light Disturbance
- Re-Enforced with Electronic Analysis
- No Penetration

The DX-40/60 achieves Protection against False Alarms by utilizing an integrated analysis of both PIR and Microwave signals.

Fail-Safe Technology — Automatic Trouble Monitoring

Passive Infrared does not detect through walls and is never affected by movement beyond these boundaries.

Anti-PIR Tamper Function (Patent Pending)

When PIR Detection fails (something near the detector blocking the field of view), a trouble output will generate via the * alarm output (selectable option with DX-40/60) and LED Display.



* DX-40/60 PLUS has separate Relay Output

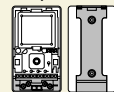
Microwave Watchdog Circuit (Self-Checking Function)

When microwave operation fails, DX-40/60 automatically switches to single PIR operation in Enhanced Reliability Mode avoiding Missed Alarms.

Trouble-Free Installation

Microwave Area Shaping allows for simple two step adjustment. By making minor adjustments to the Long or Short Range Selector and the Low, Medium, High Sensitivity Volume, the microwave can be shaped to match room size. This technology will not only reduce installation hassle but will reduce false alarms caused by penetration of walls by the microwave detector.

- Wiring Guide & Wide Space at Terminals — Increases ease of installation



- High Visibility LED Display (3 LED's) — Selectable on/off Easy Knockout

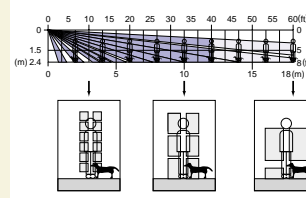


- Easy to operate Pin Switches (with instruction directly on the detector)

Detection Area Size Configuration

"Microwave Area Shaping Technology" and "Quad Zone Logic"

The Microwave Area can be easily shaped to fit the desired area and have even sensitivity. In addition, Quad Zone Logic in the PIR provides high tolerance to spot temperature changes and movements caused by small animals, heating vents, moving curtains and vibrations caused by big machinery.



No False Alarms due to Penetration through walls

Passive Infrared does not detect through walls and is never affected by movement beyond these boundaries.

No False Alarms by Spot Temperature Changes

DX-40/60 is not affected by spot temperature changes or by sunlight caused by the movement of sunlight through a detection area.

Enhanced Sealed Optics (Patent Pending)