

OPTEX

COMBINATION DETECTOR

With PET IMMUNITY

With PET IMMUNITY&TAMP

MX-40QZ MX-50QZ MX-50T MX-40PI

MX-40PT



FEATURES

- -40ft.×40ft.(12m×12m)Wide Angle [MX-40 Series] -Easy Wiring Knockout
- -50ft.×50ft.(15m×15m)Wide Angle [MX-50 Series] -Wiring Guide
- -QUAD Zone Logic
- -Patented Multi-focus Lens
- -Improved Sealed Optics
- -Temperature Compensation Logic
- -Pet Immunity [MX-40•PI/PT Only]
- (See Section 5 for Pet Immunity)
- -Model MX-40PI/50T are UL Listed models

EASY INSTALLATION

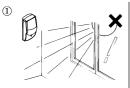
- -Spare Terminal [MX-40QZ/50QZ/50T/40PT Only]
- -Tamper Terminal [MX-40QZ/50QZ/50T/40PT Only] -Microwave Range Selector(LONG or SHORT)
- -D.L. Terminal [MX-40QZ(BE)/50QZ(BE) Only]
- -Wide Wiring Space

- -Selectable Pulse Count(2 or 4)
- -LED ON/OFF
- -Tamper Switch [MX-40QZ/50QZ/50T/40PT Only]

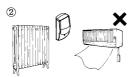
OPTION

-FA-3 Wall & Ceiling Mount Bracket (Horizontally ±45°&Vertically 0°to-15°)

1. INSTALLATION HINTS



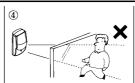
Avoid direct sunlight



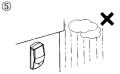
Avoid mounting detector where movement of Fans or Air Conditioning can be detected.



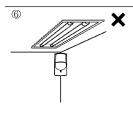
Avoid vapor or high humidity that can cause



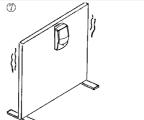
Avoid Curtain.Screen.etc blocking detection area.



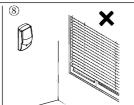
Do not install outdoors.



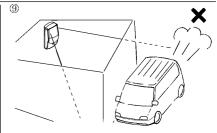
Do not install unit near fluorescent lights.



Do not mount in unstable location where vibration or shock may affect the detector.

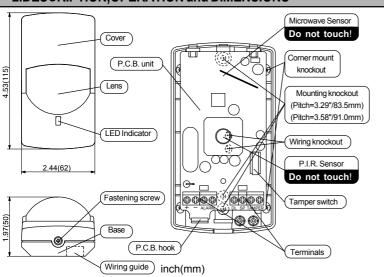


Do not aim detection area towards equipment which continually moves in the detection area (i.e.curtain, blinds).



Do not aim towards outside areas where there is frequent movement.

2.DESCRIPTION, OPERATION and DIMENSIONS



LED ON/OFF Use the pin switch for LED ON/OFF

PULSE COUNT Use the pin switch

D.L. TERMINAL (MX-40QZ(BE), MX-50QZ(BE) Only)



EASY WIRING KNOCKOUTS

Press firmly with a screwdriver to open.Enlarge the hole according to size of wire

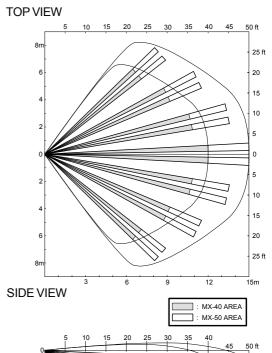


MY-40 Serie

Select RANGE SELECTOR (7m)square and Smaller room

3. DETECTION AREA

WIDE ANGLE



7.5 ft₈ ft

10 ft



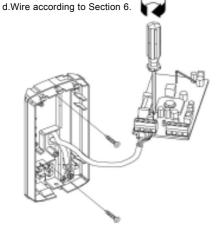
MICROWAVE RANGE

(SHORT or LONG)

Select RANGE SELECTOR according to the room size.

4.INSTALLATION

- a.Loosen fastening screw and remove cover.
- b.Release hook at bottom of P.C.B.unit. Remove P.C.B. unit from base.
- c.Route wires through knockouts along the wiring guide on the rear side of base. Mount base with supplied screws. When small animal immunity is required, refer to Section 5.When using a bracket, check matching knockout positionbefore opening mounting hole.



- e.Fix P.C.B.unit into base. Supply power. Allow 1 min. to warm up.
- f.Conduct walktest and make adjustments. (Section 2) Fit cover using fastening screw.

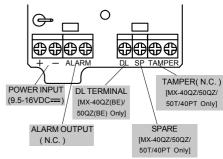
5. PET IMMUNITY (MX-40PI/40PT Only)

- Pet Immunity is most effective on the following sized animals:Rodents = 0 to 4 inches high Cats and small to medium sized dogs = 0 to 16 inches high at normal room temperature.
- 2. Installation Instructions
- a.Mount between 7 and 8 ft. (For better immunity especially for medium sized dogs, mount as close to8ft. as possible.)
- b.Do not angle detector towards the ground or use the angle bracket. Mount flat on the wall or in the corner.
- c.For best pet immunity, limit the detectors field of view to30 ft. maximum in any direction.
- d.For rodents

If any shelves within 15 ft.of the detector have a height that comes wihtin 2.5 ft.below the mounting height of the detector and rodents can access these areas, pet immunity will be reduced. Please select mounting location of detectors carefully to avoid this situation.

- e.For cats and dogs (16 inches in height or less at normalroom temperature) When a dog jumps up on desks, the detector may detect it. Adjust detection area to avoid such places.
- f.For cats
 - If there are cats, any shelves in the detection area will reduce pet immunity.
- g.Pulse Count 4 is not required for Pet Immunity applications.Use 4 pulse only in harsh environment.
- *The Pet Immunity Function has not been evaluated by UL since there are not established UL requirements for pet immunity.

6. WIRING



Power wires should not exceed the following lengths.

WIRE GAUGE	12VDC==	14VDC==
AWG 22(0.33mm ²)	1070' (320m)	2140' (650m)
AWG 20(0.52mm ²)	1700' (510m)	3400' (1020m)
AWG 18(0.83mm ²)	2700' (820m)	5300' (1600m)

When using two or more units on one wire, the maximum length is obtained by dividing the maximum wire length listed above by the number of units used.

*UL requires MX-40PI, 50T to be connected to a UL listed power supply capable of providing a nominal input of 12VDC == , 20mA(max.) (at 12VDC ==)and battery standby time of 4 hours.

*The equipment shall be installed in accordance with the National Electrical Code, NFPA 70.

7. TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE REMEDY	
LED does not light.	ncorrect power supply voltage.(disconnection, low voltage) Correct the voltage supply to 9.5•-16VDC == . See Section 3. Turn on the Switch. (See Section 2)	
LED lights even though no person is within area.	Moving object within area. (curtain,wall hanging, etc.) Remove object from detection area, or change location in the control of the control	
LED lights but signal is not sent.	Relay contact is stuck or damaged due to overloading. Check load of output. The unit needs repair or replacement. Wire correctly.	

8. SPECIFICATIONS

MODEL	MX-40QZ/PI/PT	MX-50QZ/50T
Detection method	Passive Infrared and Microwave	
Coverage	40 × 40ft. (12 x 12m) 85° wide 50 × 50ft. (15 × 15m) 85° wide	
Detection zones	78 zones(PIR)	
Mounting Height	5-8ft (1.5-2.4m)	7.5-10ft (2.2-3.0m)
Sensitivity	3.6°F (2°C) at 2ft/sec (0.6m/sec)	
Detection speed	1 - 5ft/sec (0.3 - 1.5m/sec)	
LED Alarm Indicater	Switch-able ON/OFF	
Alarm period	Approx. 2.5 sec	
Alarm output	N.C., 28VDC== 0.2A max.	
Tamper switch	N.C., Open when cover is removed. (N.C., 28VDC == 0.1A max.)	
Pulse Count	Approx. 20 sec 2 or 4	
Warm up period	Approx. 1 min	
Power input	9.5-16VDC==	
Current draw	18mA (max.) at 12VDC ===	20mA (max.) at 12VDC===
Weight	3.9 oz (110g)	
Operating temperature	-14°F - +131°F (-10°C - +55°C)	
Environmental humidity	95% max.	
Microwave Frequency	2.45GHz	
RF interference	No Alarm 20V/m	
D.L. Terminal	See Section 2	

^{*}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 conplete system,we cannot accept responsibility for any damages or other consequences resulting from an intrusion. The following statement will be provided with the equipment as required by Article 6.3 of the R&TTE Directive, 1999/5/EC.

The Optex MX Series (except MX-40Pl and MX-50T) are in conformity with all essential requirements of the R&TTE Directive (1999/5/EC). This equipment

has been assessed to the following

standards:

I-ETS 300 440: December 1995 ETS 300 683: June 1997 EN 60950: 1992, Incl Amdt 1-4, 11 This product is marked with **C €08910** which signifies conformity with Class II product requirements specified in the R&TTE Directive.

The following table indicates the areas of intended use of the equipment and any known restrictions. For countries not included in this list, please consult the responsible Spectrum Management Agency.

Country of intended use Austria Belgium Denmark Finland France Germany Greece Ireland Italy Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway Switzerland		
Belgium Denmark Finland France Germany Greece Ireland Italy Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Country of intended use	Restrictions
Denmark Finland France Germany Greece Ireland Italy Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Austria	
Finland France Germany Greece Ireland Italy Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Belgium	
France Germany Greece Ireland Italy Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Denmark	
Germany Greece Ireland Italy 2.450GHz Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Finland	
Greece Ireland Italy 2.450GHz Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	France	
Ireland Italy 2.450GHz Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Germany	
Italy 2.450GHz Luxembourg The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Greece	
The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Ireland	
The Netherlands Spain Sweden United Kingdom Other non EU:Iceland Norway	Italy	2.450GHz
Spain Sweden United Kingdom Other non EU:Iceland Norway	Luxembourg	
Sweden United Kingdom Other non EU:Iceland Norway	The Netherlands	
United Kingdom Other non EU:lceland Norway	Spain	
Other non EU:Iceland Norway	Sweden	
Norway	United Kingdom	
	Other non EU:Iceland	
Switzerland	Norway	
	Switzerland	



OPTEX CO., LTD. (ISO 9001 Certified by LROA)
5-8-12 Option Ciss. 250-9101 Japan
TEL (077)579-8670 FAX (077)579-8190
OPTEX INCORPORATED
1846W 2598n Street fortrance, CA 90501-1510 U.S.A.
TEL (310)533-1500 FAX (310)533-5910
OPTEX (EUROPE) LTD. (ISO 9002 Certified by NOA)
Clivemont Road, Cordwalis Park, Maidenhead, Berkshire, SL6 7BU U.K.
TEL (10128)581000 FAX (10128)583311