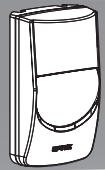


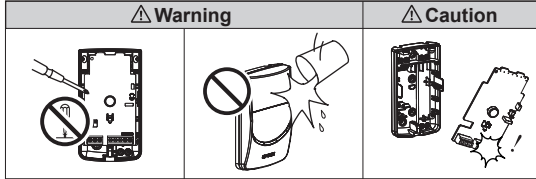
# INSTALLATION INSTRUCTIONS



PASSIVE INFRARED DETECTOR

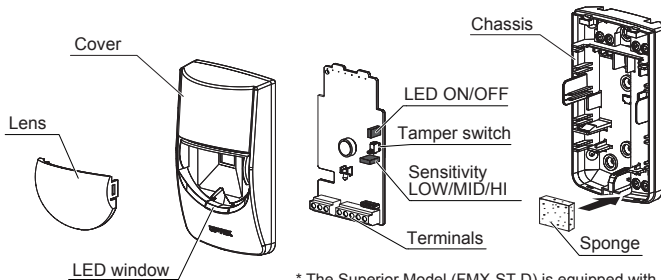
## FMX-ST / -ST-D

- 15 m Wide Angle PIR Detector with Digital Quad Zone Logic / Plug-in EOL
- Standard Model: FMX-ST
- Superior Model: FMX-ST-D



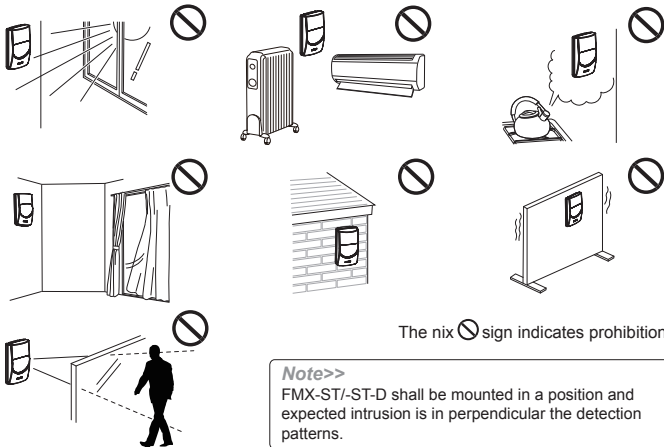
The nix sign indicates prohibition.

### 1 PARTS IDENTIFICATION



\* The Superior Model (FMX-ST-D) is equipped with the Double Conductive Filter.

### 2 INSTALLATION HINTS

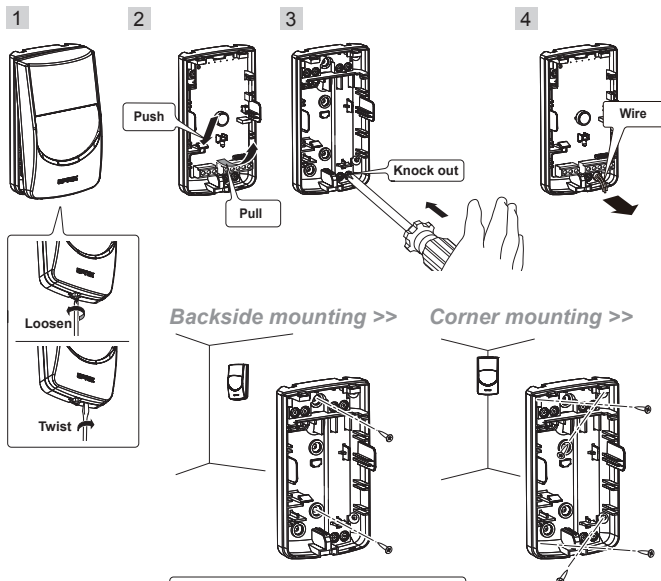


The nix sign indicates prohibition.

**Note>>**

FMX-ST/-ST-D shall be mounted in a position and expected intrusion is in perpendicular the detection patterns.

### 3 INSTALLATION



Backside mounting &gt;&gt;

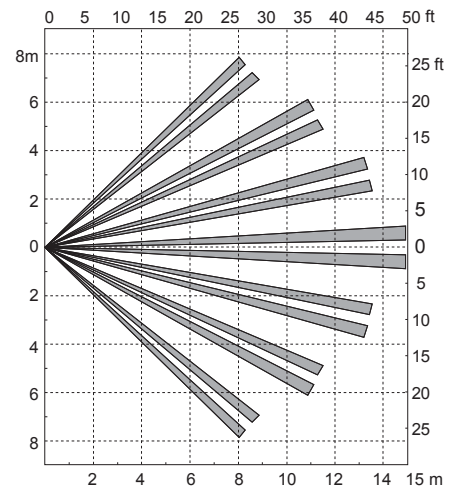
Corner mounting &gt;&gt;

**Note>>**

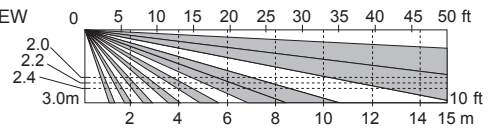
Mounting screws are not included.

### 4 DETECTION ZONE

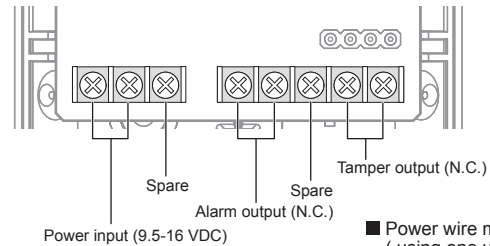
TOP VIEW



SIDE VIEW



### 5 WIRING



■ Power wire maximum length (using one unit on a single wire)

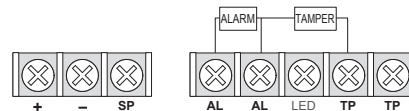
WIRE GAUGE	12 VDC	14 VDC
AWG 22 (0.33mm <sup>2</sup> )	520m (1700')	1130m (3700')
AWG 20 (0.52mm <sup>2</sup> )	820m (2690')	1780m (5830')
AWG 18 (0.83mm <sup>2</sup> )	1310m (4290')	2850m (9350')

### 6 PLUG-IN End Of Line resistors (EOL) (OPTION)

When connecting to a control panel that supports the EOL technique

#### 6-1 When setting the resistance value without using PLUG-IN EOL

Wire resistors between the appropriate terminals as follows:

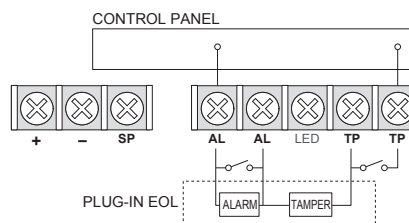


#### 6-2 When setting the resistance value with using PLUG-IN EOL

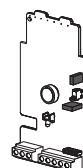
Two types of signals – ALARM and TAMPER – can be recognized through the combination of the resistance value and wires for the AL and TP terminals.


**Caution>>**

There are several types of PLUG-IN EOL and the insertion direction differs depending on its type.

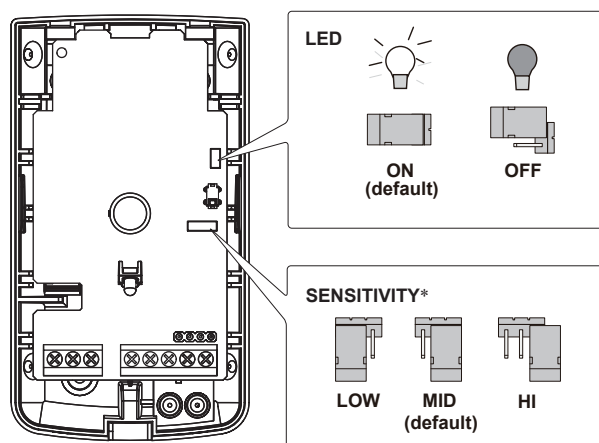


HOW TO SET

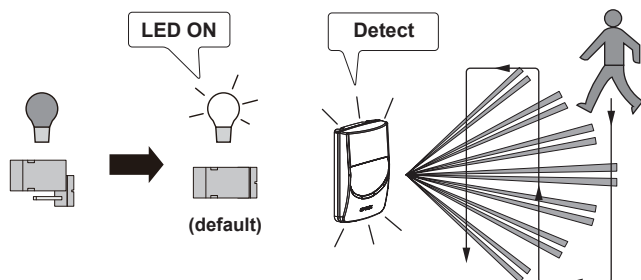

**Note>>**

Check the direction when inserting PLUG-IN EOL.

## 7 SETTING



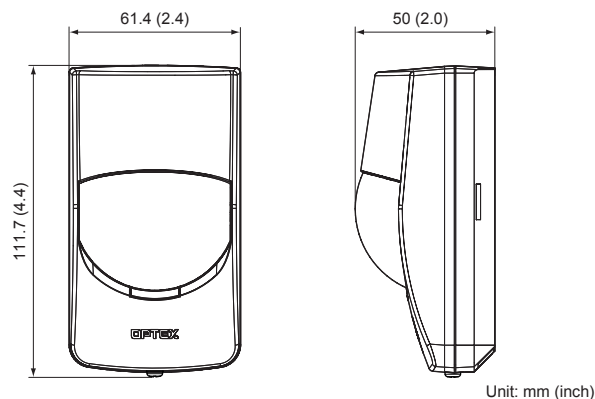
## 8 WALK TEST



### Note>>

Conduct a walk test at least once a year.

## 9 DIMENSIONS



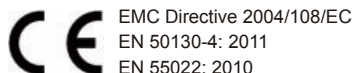
**NOTE** This unit is designed to detect movement of an intruder and activate an alarm control panel. Being only a part of a complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.

## 10 SPECIFICATIONS

Model	FMX-ST/-ST-D
Detection method	Passive infrared
Coverage	15 m x 15 m (50 ft x 50 ft) 85°wide
Detection zones	78 zones
Mounting height	2.2 to 3.0 m (7.3 to 10.0 ft)
LED alarm indicator	Switchable ON/OFF
Alarm period	Approx. 2.5 sec
Alarm output	N.C., 28 VDC 0.2 A max.
Tamper switch	N.C., Open when cover is removed.
Tamper output	28 VDC 0.1 A max.
Sensitivity/range	Switchable LOW/MID/HI
Warm up period	Approx. 60 sec (LED blinks.)
Power input	9.5 to 16 VDC
Current draw	8 mA (normal), 11 mA (max.) at 12 VDC
Dimensions	111.7 mm x 61.4 mm x 50.0 mm <HxWxD>
Weight	Approx. 100 g
Operating temperature	-20°C to +50°C (-4°F to +122°F)
Environmental humidity	95% max.
RF interference	No alarm 10 V/m

Specifications and design are subject to change without prior notice.

## 11 COMPLIANCE



(FMX-ST)  
EN 50131-1 Grades and Environmental Class:  
Security Grade 2, and Environmental Class II.  
EN 50131-2-2  
Tested and certified by Telefication.

**PD6662: 2010**



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**OPTEX INC. (U.S.)**

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