8 TROUBLE SHOOTING

PROBLEM	PROBABLE CAUSE	REMEDY		
	Incorrect power supply voltage. (disconnection, or low voltage)	Correct supply voltage to 9.5 to 16 V DC. See Section 5.		
LED does not light.	Improper detection area.	See Section 2.		
	LED switch is OFF.	Turn on the switch.		
	Improper polarity to detector.	Switch positive and negative at terminal.		
LED lights even though no person	Moving object within area. (curtain,wall hanging, etc.)	Remove the souces from the detection area.		
within area.	Temperature of object within area changing rapidly. (heater, air conditioning, etc.)	Remove object from the detection area.		
LED lights but signal is not sent.	Relay contact is stuck of damaged due to overloading.	Check load of output. The unit needs repair or replacement.		
LED continues to light.	Faulty Wiring.	Wire correctly.		
	Poor connection of alarm memory.	Reconnect wire.		

9 SPECIFICATIONS

Model	CX-702 MKII			
Detection method	Passive infrared			
Coverage	Wide angle 90° wide 21 m × 21 m (70 ft. × 70 ft.)	Long range 45 m × 10 m (150 ft. × 30 ft.)		
Detection zones	136 zones	44 zones		
Mounting height	1.5 to 3.6 m (5 to 12 ft.)			
Sensitivity	1.6°C at 0.6 m / sec., 2.4 m mounting height (3°F at 2 ft. / sec., 8 ft. mounting height)			
Detectable speed	0.3 to 1.5 m / sec. (1 to 5 ft. / sec.)			
Power input	9.5 to 16 V DC			
Current draw	17 mA (normal) / 19 mA (max.) at 12 V DC			
Alarm period	Approx. 2.5 sec.			
Alarm output	N.C. 28 V DC 0.2 A (max.)			
Tamper switch	N.C., Opens when cover removed 28 V DC 0.1 A (max.)			
Pulse count	Approx. 20 sec. 2 or 4			
Warm up period	Approx. 1 min.			
LED indicator	Alarm condition			
RF interference	No alarm 10 V / m			
Operating temperature	-20°C to +50°C (-4°F to +122°F)			
Environment humidity	95 % (max.)			
Weight	200 g (7.0 oz.)			

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

EU contact information Manufacturer:

OPTEX CO., LTD. 5-8-12 Ogoto, Otsu, Shiga, 520-0101 JAPAN Authorised representative in Europe:

OPTEX (EUROPE) LTD. / EMEA HEADQUARTERS Marandaz House 1 Cordwallis Park, Clivemont Road, Maidenhead, Berkshire, SL6 7BU U.K.

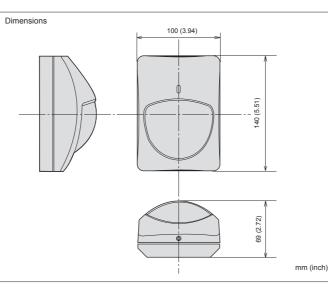


OPTEX INC. (U.S.) URL: http://www.optexamerica.com

OPTEX DO BRASIL LTDA. (Brazil) URL: http://www.optex.net/br/es/sec

OPTEX (EUROPE) LTD. / EMEA HQ (U.K.) URL: http://www.optex-europe.com

OPTEX TECHNOLOGIES B.V. (The Netherlands) URL: http://www.optex.eu



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.

(CX-702MKII Wide angle only) EN 50131-1 Grades and Environmental Class: Security Grade 2 and Environmental Class II. EN 50131-2-2 Tested and certified by Telefication.

OPTEX CO., LTD. (JAPAN) URL: http://www.optex.net

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URL: http://www.optex-security.com **OPTEX SECURITY Sp.z o.o. (Poland)** URL: http://www.optex.com.pl

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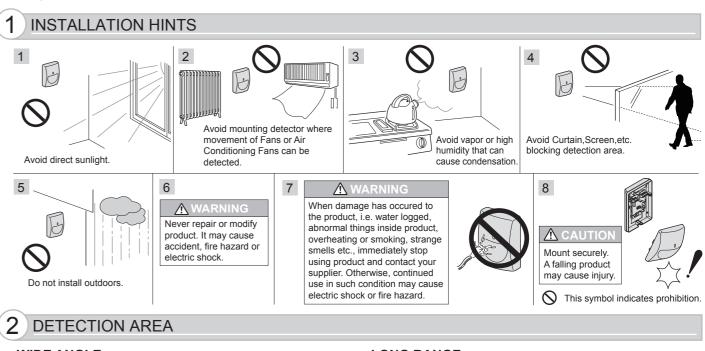
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PASSIVE INFRARED DETECTOR 0 **BX6702** MKI

FEATURES

- Dual Purpose Lens: Selectable "WIDE ANGLE" and "LONG RANGE" detection patterns
- Double Conductive Shielding of the pyroelectric element Extremely High Light and RFI
- Immunity (Patent listed)
- Multifocus Optics Design (Patent listed)
- LED On / Off Switch
- Sealed optics Easy Installation



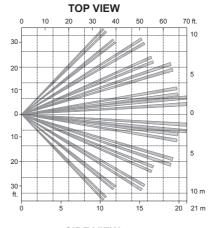
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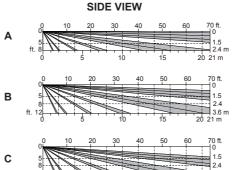
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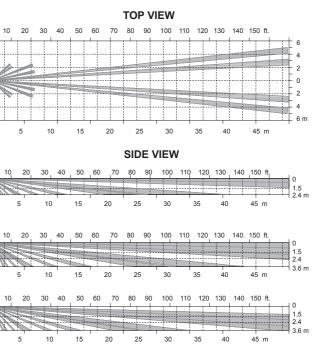




No.59-2575-0 1612-15 INSTALLATION INSTRUCTIO

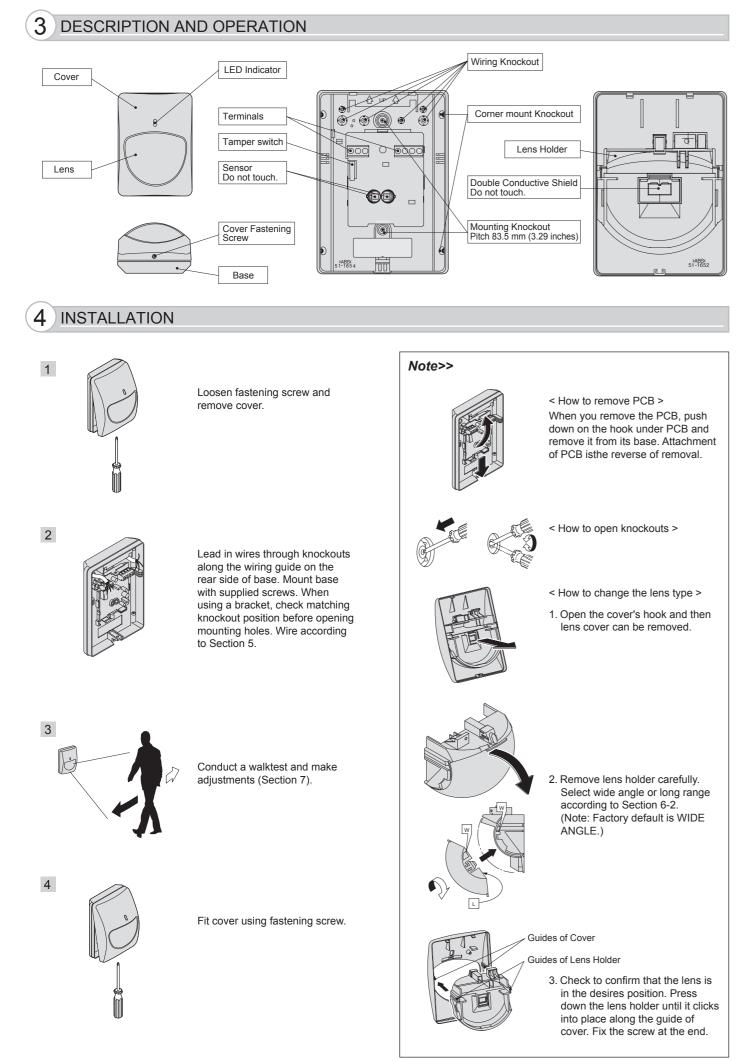
OPTION CA-1W : Wall Mount Bracket : adjustable ±45° (Horizontally), 0 to 20° (Vertically downwards) CA-2C : Ceiling Bracket : adjustable ±45° (Horizontally), 0 to 20° (Vertically downwards)

LONG RANGE * not certified with EN 50131-2-2



ATTENTION

The specified detection area can be achieved by mounting the unit at a height of 2.4 m (8 ft.). Mounting at a lower or higher height may reduce the area of coverage



5 WIRING POWER INPUT (9.5 to16 V DC) TAMPER WIRE (N.C.) ALARM AW OUTPUT SPARE (N.C.) AW AW 000 $\cap \cap$ number of units used. Connect tamper terminals to a 24 hour supervisory loop. 6 ADJUSTMENTS FOR REQUIRED AREA PATTERN The CX-702 MKII is designed to provide ideal detection areas for different patterns ranging from 12 m (40 ft.) to 21 m (70 ft.) Wide Angle, and 24 m (80 ft.) to 45 m (150 ft.) Long Range. The following adjustments will provide ideal detection areas for each of these requirements. **1 DETERMINE THE AREA PATTERN** Before making adjustments, determine the pattern area, detection range mounting height. **2** SELECTING WIDE ANGLE OR LONG RANGE DETECTION 1. Inverting the lens will select either the Wide Angle or Long Range detection patterns. 2. Please note markings "W (Wide Angle) " and "L (Long Range) ", on each side of lens. 3. For Wide Angle, "W" will be on top of lens. 4. For Long Range, "L" will be on top of lens. **3 VERTICAL ADJUSTMENT OF DETECTION AREA** Adjust the vertical angle according to the desired detection range and mounting height. 1. Set the upper edge of the lens at either the "A", "B" or "C" position. 2. The following chart illustrates the different position setting. 3. Confirm the detection area by conducting a walktest. Lens Holder W: WIDE ANGLE DISTANCE 12 (40) 15 (50) 18 (60) 1.5 (5) В А А 2.4 (8) HEIGHT С С С 3.6 (12) С С С Lens FUNCTIONS 1 LED ON / OFF Jumper Pin Switch 0 000 00000 ON 2 PULSE COUNT

ACAUTION

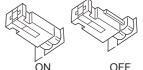
Always conduct a walktest after changing the position of this switch to ensure the detector is still providing optimum coverage. Power wires should not exceed the following lengths.

VOLTAGE	12 V	14 V
/G 22 (0.33 mm ²)	520 m (1700 ft)	1130 m (3700 ft)
/G 20 (0.52 mm ²)	820 m (2690 ft)	1780 m (5830 ft)
/G 18 (0.83 mm ²)	1310 m (4290 ft)	2850 m (9350 ft)

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

	m (π.)							
		L : LONG ANGLE						
				DISTANCE				
)	21 (70)				24 (80)	30 (100)	36 (120)	45 (150)
	A		HEIGHT	1.5 (5)	В	В	А	А
	С			2.4 (8)	С	С	С	С
	С			3.6 (12)	С	С	С	С

The Alarm LED indicator can be switched either "ON" or "OFF".



The Detection Mode can be switched to either "2" or "4" mode depending on the environmental conditions of the installation.

2 : For normal applications.

4 : For use in hostile areas where there may be movement of small animals or other objects such as fax machines or curtains.

When the "4" is selected, the detector's sensitivity may seem sluggish. It is therefore important to always conduct a walktest to ensure that the desired coverage is given.

