The LED can be enabled or disabled by using the LED ON/OFF switch or by using D.L. terminal.

1 LED ON/OFF Switch (SX-360Z only)



- · Use this switch to enable or disable LED.
- . This switch has priority to over DL terminal.

2 DL Terminal (for LED remote control)

· LED can be enabled or disabled remotely by using DL terminal.

	Remote operation	
LED Enabled	Connect DL terminal to common ground.	
LED Disabled	Open DL terminal circuit.	

Note>>

- . LED operation does not affect the alarm memory functions.
- DL terminal common line is same as terminal of POWER INPUT.

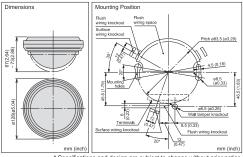
11 TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE	REMEDY
	Incorrect power supply voltage. (disconnection, or low voltage)	Correct supply voltage to 9.5 - 18 VDC.
LED does not light.	Incorrect detection area.	See section 2 and section 7.
	Incorrect polarity to detector.	Switch positive and negative at terminal.
	LED switch is OFF	Turn on the Switch. See section 10.
LED lights even though no person	Moving object within area. (curtain, wall hanging, etc.)	Remove object from detection area.
within area.	Rapid temperature changes (heater, air-conditioner, etc.) within area.	Remove object from detection area.
LED continues to	Poor connection of alarm memory. (SX-360ZV)	Reconnect wire.
light	Wrong control voltage from panel. (SX-360ZV)	Must be 0 to 1 VDC. (grounded)
LED lights but signal	Relay contact is stuck of damaged due to overloading.	Check load of output. The unit needs repair or replacement.
	Faulty Wiring.	Wire correctly.

12 SPECIFICATIONS

Model	SX-360Z	
Detection method	Passive Infrared	
Detection zones	276 zones	
Mounting location	Celling	
Coverage / Mounting height	ø18 m (ø60 ft.) at 2.4 –5 m (8 –16 ft.)	
Optical design	360° ZOOM	
I ED indicator	LED is blinking during warm-up period.	
LED Indicator	Alarm condition	
Alarm period	2.0 ±0.5 sec.	
Alarm output	N.C., 28 VDC 0.2 A (max.)	
Tamper switch	N.C., Opens when cover removed.	
Tamper output	30 V DC 0.1 A (max.)	
Pulse Count	20 ±5 sec. 1, 2 or 4	
Warm up period	Approx. 20 sec. (LED blinks.)	
Power input	9.5 to 18 VDC	
Current draw	16 mA/(normal), 18 mA/(max.)	
Weight	224 g (7.90 oz)	
Operating temperature	-20°C to +50°C (-4°F to +122°F)	
Environment humidity	95% (max.)	
RF interference	No Alarm 30 V/m	

Model	SX-360ZV		
Alarm memory	Armed: 0 to 1 VDC, See section 8.		
Initial Alarm memory Max.40 detectors See section 8.			
Current draw	16 mA/(normal), 28 mA/(max)		
Weight	227 g (8.00 oz.)		
RF interference	No Alarm 30 V/m		



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

13 COMPLIANCE



 EMC Directive 2004/108/EC EN 50130-4: 2011 EN 55022: 2010 PD6662:2010

(SX-360Z)

EN50131-1 Grades and Environmental Class: Security Grade 2 and Environmental Class II. EN 50131-2-2

Tested and certified by Telefication.

larm klass 2. miliö klass II. SSF 1014 v4

UL/c-UL Listed

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
- This Product conforms to the EMC Directive. 2004/108/EC.
- The ULC products are installed in accordance with the Canadian Code as per Section 4.3 of ULC-S306.

OPTEX

OPTEX CO., LTD. (JAPAN)

URL: http://www.optex.net/

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.optexeurope.com/

OPTEX TECHNOLOGIES B.V. (The Netherlands)

URL: http://www.ontex.eu/

OPTEX SECURITY SAS (France) URL: http://www.optex-security.com/

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

OPTEX PINNACLE INDIA, PVT., LTD. (India)

URL: http://www.optex.net/in/en/sec/

OPTEX KOREA CO.,LTD. (Korea)

URL: http://www.optexkorea.com/

OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China)

URL: http://www.optexchina.com/



No.59-0527-8 150707 UL 59-0527-6 0908-31

INSTALLATION INSTRUCTIONS





FEATURES

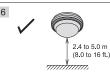
1

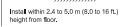
5

- Ceiling mount 360° PIR detector
- Zoom area adjustment: ø18 m (ø60 ft.) at 2.4 –5.0 m (8 –16 ft.)
- High density detection area with 276 zones
- Selectable sensitivity (High, Medium or Low)
- Selectable pulse count (TEST, 2 or 4)
- Initial alarm memory (SX-360ZV)
- LED remote control terminal

INSTALLATION HINTS





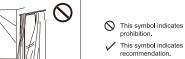




Avoid moving objects in the detection area.



field of view.



humidity that can

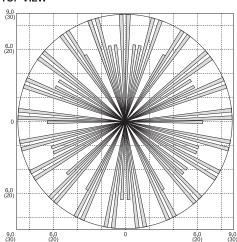
prohibition. This symbol indicates

recommendation

DETECTION AREA

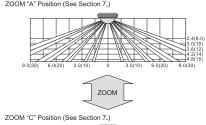
Do not install outdoors.

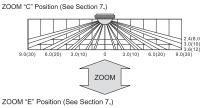
TOP VIEW



SIDE VIEW

ZOOM "A" Position (See Section 7.)

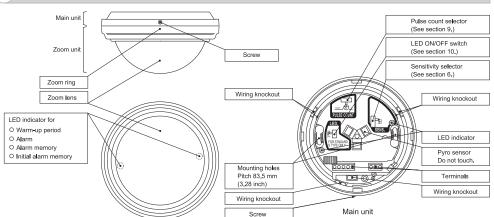






Unit: m (ft)

3 PARTS IDENTIFICATION



INSTALLATION METHOD



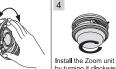
Remove the Zoom-unit from the Main unit by loosening the screw and turning the Zoom unit counter-clockwise



Mount the Main unit and wire according to section 5 Full up the mounting holes with the sponge.



Adjust Zoom (section 7) and Sensitivity (secti 6) according to the required installation height.



by turning it clockwise. And supply power to the detector When LED stops blinking the warm-up period is expired (approx. 20 sec.). Conduct a walk test.





SX-360ZV

ALARM OUTPUT



Select pulse count (see section 9.) according to your coverage needs and environmental conditions And then fasten the screw.

닌 TAMPÉR

ALARM MEMORY

INITIAL ALARM MEMORY

(See section 8.)

SPARE Two spare terminals are electrically

(See section 8.)

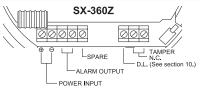
SPARE Circuit board.

- D.L. (See section 10.)

Note>>

· When the warm-up period is expired, alarm is generated once. This is an electric characteristic of SX-360Z and not a mal-function Conduct a walk test at least once a year.

5 WIRING

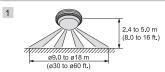




Power wires should not exceed the following lengths 14V 320 m (1070 ft) 650 m (2140 ft) 230 m (770 ft) 460 m (1530 ft) AWG20 (0.52 mm²) 510 m (1700 ft) 1020 m (3400 ft) 360 m (1200 ft) 730 m (2400 ft) 820 m (2700 ft) 1600 m (5300 ft) 570 m (1900 ft) 1150 m (3800 ft) AWG18 (0.83 mm²)

- WIRE SIZE AWG22 (0.33 mm²)
- When using two or more units on one wire, the maximum length is obtained by dividing the above length by the number of units used.
- UL requires SX-360Z to be connected to a UL listed power supply capable of providing a nominal input of 12 VDC and battery standby time of 4 hours.

6 SENSITIVITY ADJUSTMENT



Before making adjustments, determine the mounting height and detection area. (See section 7.)



Select the sensitivity "H (High)", "M (Medium)" or "L (Low)". The following chart shows recommended setting for diameter of detection area.

POWER INPUT

SENS.	L	М	Н
DIAMETER OF	ø9.0 to ø12 m	ø12 to ø15 m	ø15 to ø18 m

ZOOM AREA ADJUSTMENT

The SX-360Z series detection pattern can be adjusted for installations at any height, between 2.4 to 5.0 m (8.0 to 16 ft.)

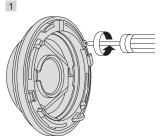
Unit: m (ft.)

≪DETECTION AREA CHART≫

		ZOOM-LOCK SCREW				
		А	В	С	D	E
눞	5.0 m (16 ft.)	ø18 (ø60)	-	-	-	-
HEIGHT	4.3 m (14 ft.)	ø16 (ø52)	ø18 (ø60)	-	-	-
9	3.7 m (12 ft.)	ø14 (ø48)	ø15 (ø50)	ø18	-	-
MOUNTING	3.0 m (10 ft.)	ø11 (ø37)	ø12 (ø40)	ø15	ø18	-
9	2.4 m (8.0 ft.)	ø9.0 (ø30)	ø10 (ø34)	ø12	ø15	ø18

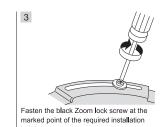


≪ADJUSTING THE ZOOM UNIT≫



Loosen the black Zoom Lock screw.





height.

Note>>

Do not fasten the screw too tightly.

8 INITIAL ALARM MEMORY & ALARM MEMORY (SX-360ZV)

The SX-360ZV can indicate an alarm history during armed period by wiring ALARM MEMORY terminal (A.M.) shown in the following section. It indicates on the LED after the system is disarmed. In case that several detectors are connected in one loop, it can indicate which one detected intrusions. In addition, by wiring INITIAL ALARM MEMORY terminal (I.A.), detectors can indicate which one detected intrusion first.

1 System status

The detector recognizes whether the system is armed or disarmed by detecting the voltage of control panel output through the A.M. terminal.

9		
Status	Control panel output	
System armed	0 - 1 VDC (grounded)	
System disarmed	Open	

"grounded"= A.M. terminal is electrically connected with

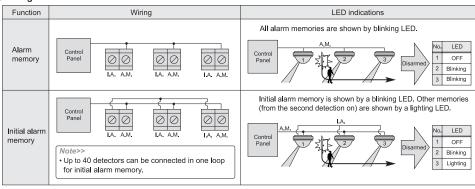
power supply terminal (ground).

2 Reset

Alarm memories are reset automatically when the system is armed again.

- · A suitable control panel is required for alarm memory.
- Alarm memory is operated whether the LED is disabled or not.
- Alarm memory is not latched while system is disarmed.
- · LED operation and alarm output are not affected by the status of alarm memory function while system is armed.

3 Wiring and LED indications



PULSE COUNT ADJUSTMENT



Adjust pulse	count	as t	follows.
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PULSE COUNT	TEST	2	4
USAGE	Instant alarm mode Select this position for walk test only.	Factory default position Select this position for most applications.	For bad environments, changing temperatures etc.