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 grou		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 is not sent.	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	Ceiling	
Coverage / Mounting height	ø18 m (ø60 ft.) at 2.4 –5 m (8 –16 ft.)	
Optical design	360° ZOOM	
LED in diseases	LED is blinking during warm-up period.	
LED indicator	Alarm condition	
Alarm period	2.0 ±0.5 sec.	
Alarm output	N.C., 28 V DC 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 V DC	
Current draw	16 mA/(normal), 18 mA/(max.) at 12 V DC	
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	

-		
_	Dimensions	Mounting Position
	67(2.64) -73(2.88)	Flush wring knockout Surface wring knockout Mounting holes Pitch e83.5 (e3.29) Pitch e83.5 (e3.29) A.5 (0.18) Results (e0.33) Wall tamper knockout Terminals Surface wring knockout Flush wring space Pitch e83.5 (e3.29) Wall tamper knockout Flush wring knockout

Specifications and design are subject to change without prior notice.

SX-360ZV

Armed: 0 to 1 V DC. See section 8. Max. 40 detectors See section 8.

16 mA/(normal), 28 mA/(max) at 12 V DC

227 g (8.00 oz.)

No Alarm 30 V/m

EU contact information

Berkshire, SL6 7BU U.K.

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,

Note>>

Alarm memory

RF interference

Weight

Initial Alarm memory Current draw

- · 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
- The ULC products are installed in accordance with the Canadian Code as per Section 4.3 of ULC-S306.

OPTEX

OPTEX CO., LTD. (JAPAN)

OPTEX INC./AMERICAS HQ (U.S.)

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

OPTEX TECHNOLOGIES B.V. (The Netherlands) www.optex.eu

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No.59-2796-0 1904-16 UL 59-0527-6 0908-31





FEATURES

- 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

COMPLIANCE

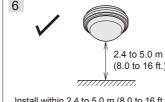
- UL / c-UL Listed
- PD 6662 : 2010
- larm klass 2, miljö klass II, SSF 1014
- (SX-360Z)

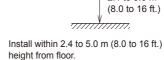
EN 50131-1 Grades and Environmental Class Security Grade 2, and Environmental Class II EN 50131-2-2

Tested and certified by Telefication

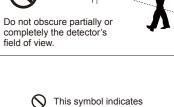
INSTALLATION HINTS













prohibition. ✓ This symbol indicates recommendation.

Avoid vapor or high

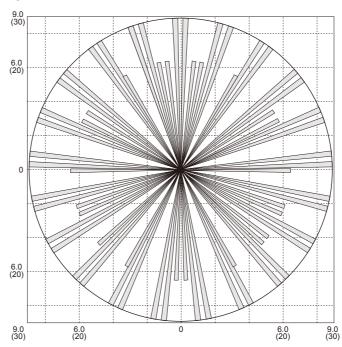
cause condensation.

humidity that can

DETECTION AREA

Do not install outdoors.

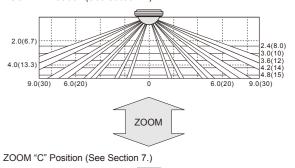
TOP VIEW

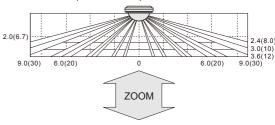


SIDE VIEW

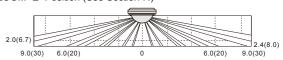
detection area.

ZOOM "A" Position (See Section 7.)



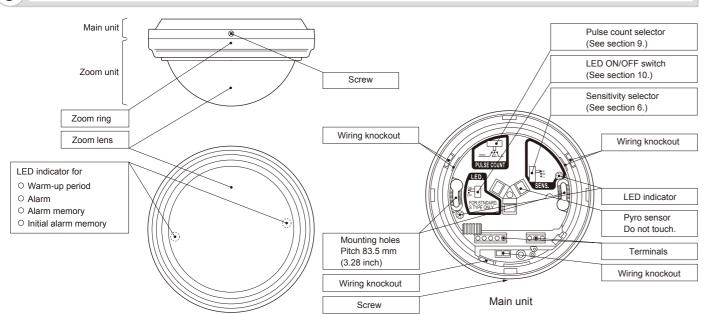


ZOOM "E" Position (See Section 7.)

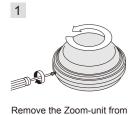


Unit: m (ft)

3 PARTS IDENTIFICATION



INSTALLATION METHOD



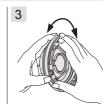
the Main unit by loosening

the screw and turning the

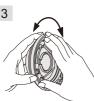
Zoom unit counter-clockwise



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



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



Install the Zoom unit 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.

- D.L. (See section 10.)

ALARM MEMORY

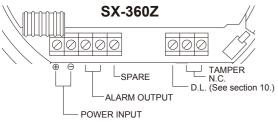
INITIAL ALARM MEMORY (See section 8.) SPARE Two spare terminals are electrically connected on the circuit board.

(See section 8.)

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

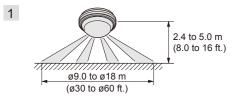
WIRING



Power wires should not exceed the following lengths.					
	SX-360Z		SX-3	60ZV	
WIRE SIZE VOLTAGE	12V	14V	12V	14V	
AWG22 (0.33 mm ²)	320 m (1070 ft)	650 m (2140 ft)	230 m (770 ft)	460 m (1530 ft)	
AWG20 (0.52 mm ²)	510 m (1700 ft)	1020 m (3400 ft)	360 m (1200 ft)	730 m (2400 ft)	
AWG18 (0.83 mm²)	820 m (2700 ft)	1600 m (5300 ft)	570 m (1900 ft)	1150 m (3800 ft)	

- 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
DETECTION AREA	(ø30 to ø40 ft.)	(ø40 to ø50 ft.)	(ø50 to ø60 ft.)

INCERT SX-360Z: For T031 compliance this switch should be set to "LOW"

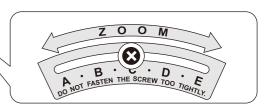
EN SX-360Z: For EN 50131-2-2 compliance this switch should be set to "LOW".

7 ZOOM AREA ADJUSTMENT

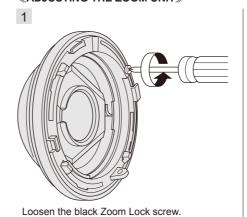
The SX-360Z series detection pattern can be adjusted for installations at any height, between 2.4 to 5.0 m (8.0 to 16 ft.)

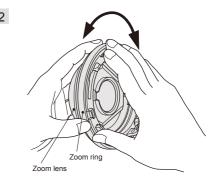
《DETECTION AREA CHART》

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



«ADJUSTING THE ZOOM UNIT»





Unit: m (ft.)

Turn Zoom ring for adjustment For higher installations, turn counter-clockwise. For lower installations, turn clockwise.

Fasten the black Zoom lock screw at the marked point of the required installation 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.

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

"grounded"= A.M. terminal is electrically connected with \bigcirc power supply terminal (ground).

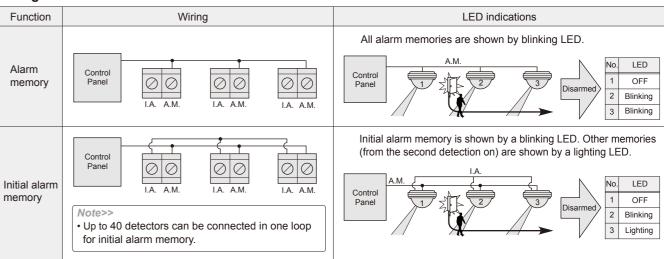
2 Reset

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

Note>>

- · 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



9 PULSE COUNT ADJUSTMENT



Adjust pulse count as follows.

, .			
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.