

10 LED ON-OFF

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.

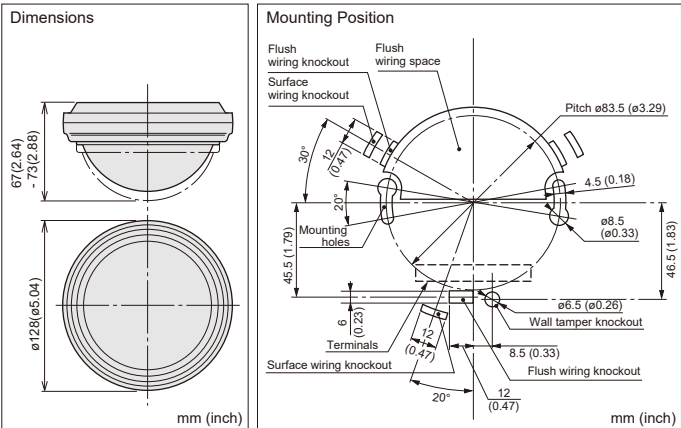
Note>>

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

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 indicator	LED is blinking during warm-up period. 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

Model	SX-360ZV
Alarm memory	Armed : 0 to 1 V DC. See section 8.
Initial Alarm memory	Max. 40 detectors See section 8.
Current draw	16 mA/(normal), 28 mA/(max) at 12 V DC
Weight	227 g (8.00 oz.)
RF interference	No Alarm 30 V/m



* 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 complete system, we cannot accept responsibility for any damages or other consequences resulting from an intrusion.
- The ULC products are installed in accordance with the Canadian Code as per Section 4.3 of ULC-S306.

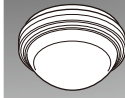
EU contact information



<https://navi.optex.net/cert/contact/>

11 TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE	REMEDY
LED does not light.	Incorrect power supply voltage. (disconnection, or low voltage)	Correct supply voltage to 9.5 - 18 VDC.
	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 within area.	Moving object within area. (curtain, wall hanging, etc.)	Remove object from detection area.
	Rapid temperature changes (heater, air-conditioner, etc.) within area.	Remove object from detection area.
LED continues to light	Poor connection of alarm memory. (SX-360ZV)	Reconnect wire.
	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.



360° CEILING MOUNT PASSIVE INFRARED DETECTOR

SX-360Z, SX-360ZV

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

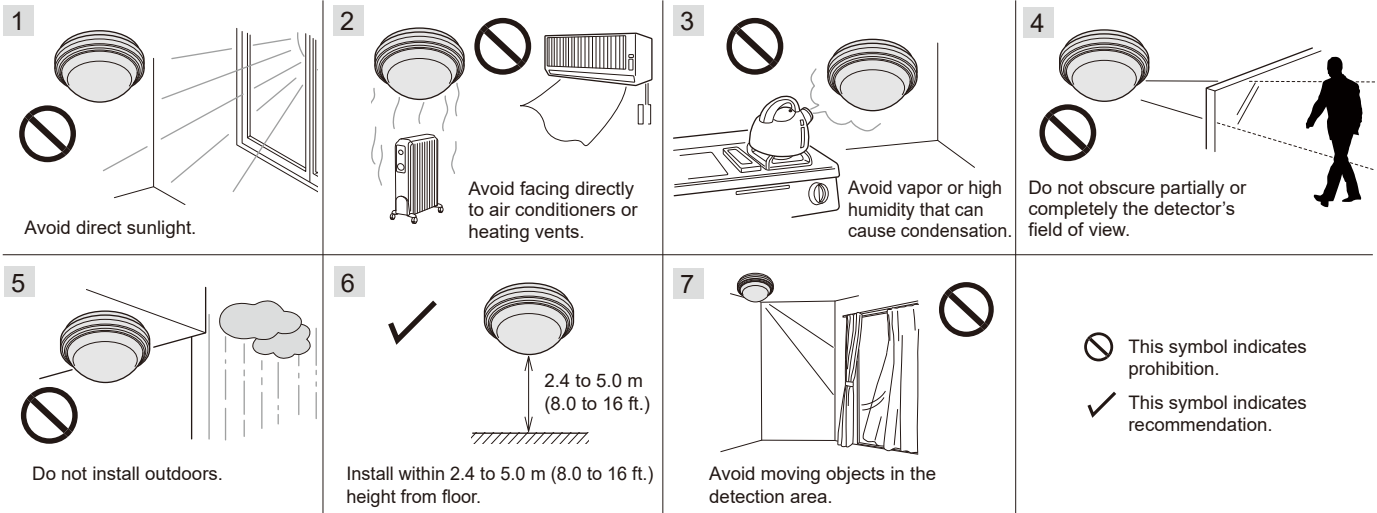
(SX-360Z)

- EN 50131-1 Grades and Environmental Class Security Grade 2, and Environmental Class II EN 50131-2-2: 2021

Tested and certified by Kiwa

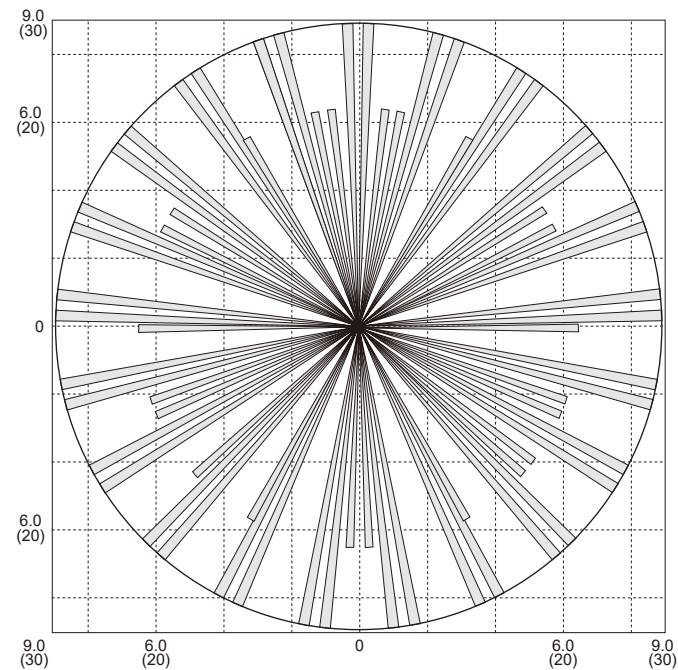
- PD 6662 : 2017
- alarm class 2, miljø klass II, SSF 1014

1 INSTALLATION HINTS



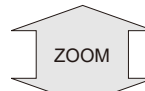
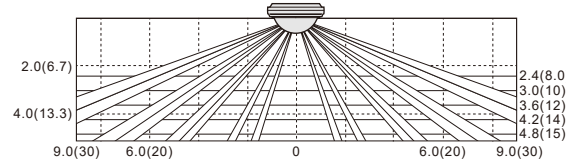
2 DETECTION AREA

TOP VIEW

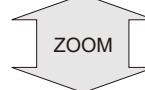
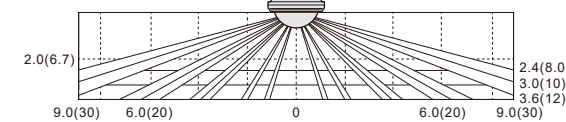


SIDE VIEW

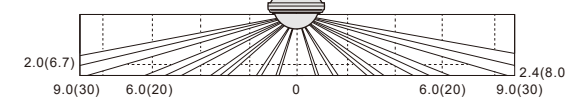
ZOOM "A" Position (See Section 7.)



ZOOM "C" Position (See Section 7.)



ZOOM "E" Position (See Section 7.)



Unit: m (ft)



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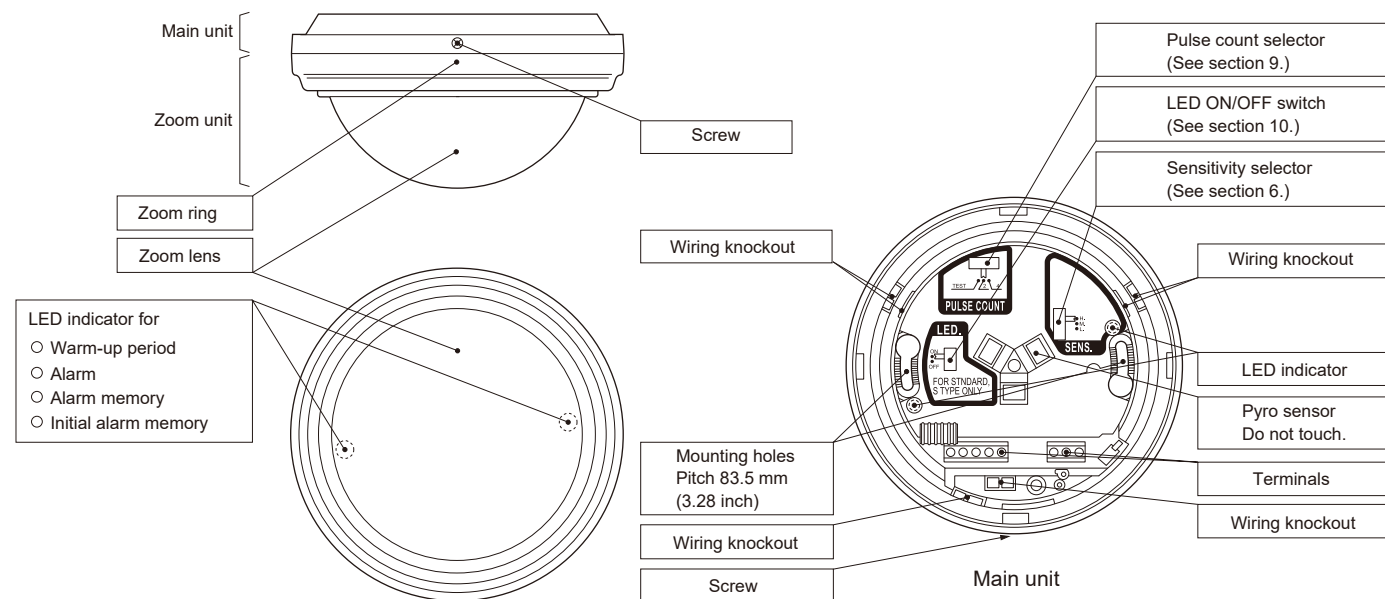
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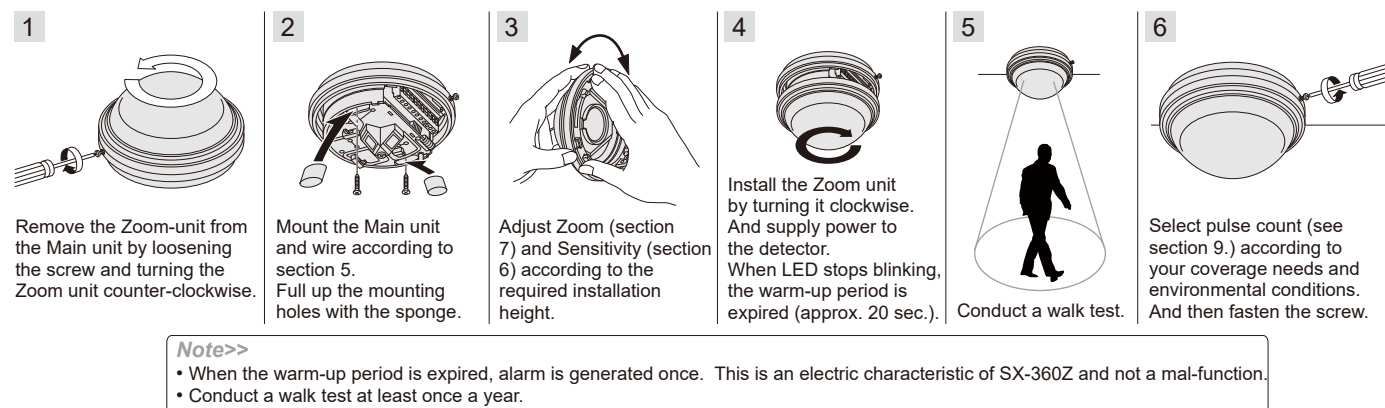
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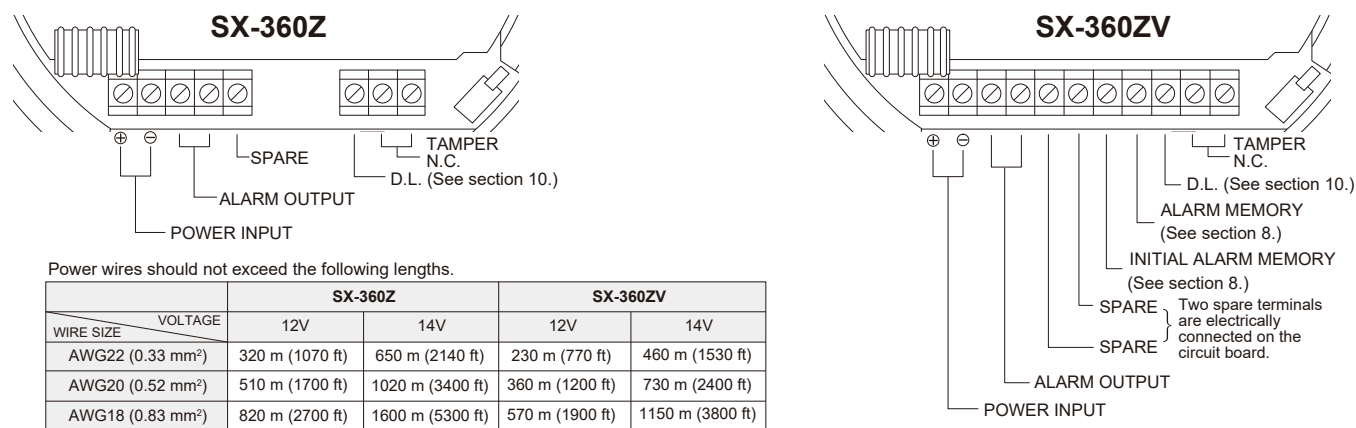
3 PARTS IDENTIFICATION



4 INSTALLATION METHOD

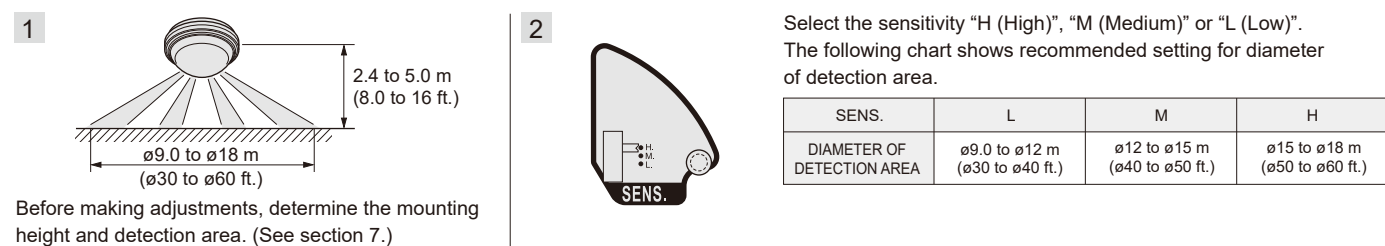


5 WIRING



- 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



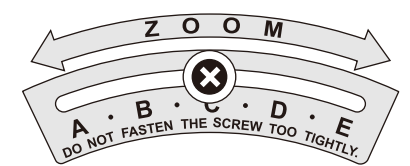
7 ZOOM AREA ADJUSTMENT

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.)

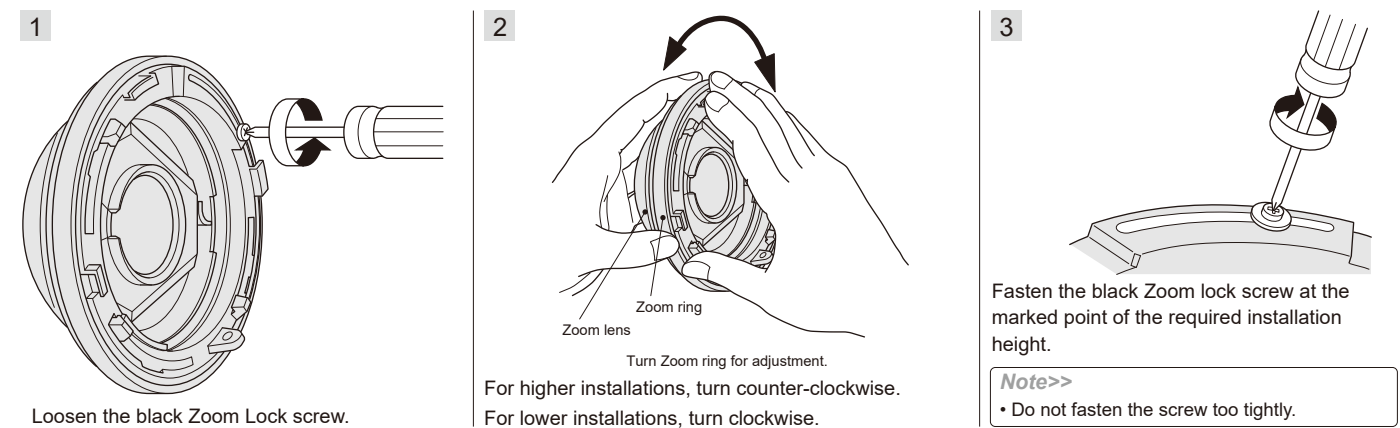
<DETECTION AREA CHART>

Unit: m (ft.)

MOUNTING HEIGHT	ZOOM-LOCK SCREW				
	A	B	C	D	E
5.0 m (16 ft.)	ø18 (ø60)	-	-	-	-
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	-
2.4 m (8.0 ft.)	ø9.0 (ø30)	ø10 (ø34)	ø12	ø15	ø18



<ADJUSTING THE ZOOM UNIT>



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 ⊖ 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

Function	Wiring	LED indications
Alarm memory	Control Panel → I.A. A.M. I.A. A.M. I.A. A.M.	All alarm memories are shown by blinking LED. Control Panel → 1 2 3 → Disarmed 1 OFF 2 Blinking 3 Blinking
Initial alarm memory	Control Panel → I.A. A.M. I.A. A.M. I.A. A.M. Note>> Up to 40 detectors can be connected in one loop for initial alarm memory.	Initial alarm memory is shown by a blinking LED. Other memories (from the second detection on) are shown by a lighting LED. Control Panel → 1 2 3 → Disarmed 1 OFF 2 Blinking 3 Lighting

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.