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.

FOR STNDARI S TYPE ONLY

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	Model	SX-360ZV	
Detection method	Passive Infrared	Alarm memory	Armed : 0 to 1 VDC. See section 8.	
Detection zones	276 zones	Initial Alarm memory	Max.40 detectors See section 8.	
Mounting location	Celling	Current draw	16 mA/(normal), 28 mA/(max)	
Coverage / Mounting height	ø18 m (ø60 ft.) at 2.4 –5 m (8 –16 ft.)	Weight RF interference	227 g (8.00 oz.) No Alarm 30 V/m	
Optical design	360° ZOOM	Dimensions	Mounting Position	
	LED is blinking during warm-up period.		Flush Flush	
LED indicator	Alarm condition		wiring knockout wiring space	
Alarm period	2.0 ±0.5 sec.		Wiring knockout Pitch #83.	
Alarm output	N.C., 28 VDC 0.2 A (max.)			
Tamper switch	N.C., Opens when cover removed.	67(2.64) - 73(2.88)	T II I I I I I I I I I I I I I I I I I	
Tamper output	30 V DC 0.1 A (max.)		450	
Pulse Count	20 ±5 sec. 1, 2 or 4		A A A A	
Warm up period	Approx. 20 sec. (LED blinks.)		Remove the second secon	
Power input	9.5 to 18 VDC			
Current draw	16 mA/(normal), 18 mA/(max.)			
Weight	224 g (7.90 oz)	a128(65.04)	Terminals	
Operating temperature	-20°C to +50°C (-4°F to +122°F)		Surface wiring knockout (0.47) 8.5 (0.33) Flush wiring knockout	
Environment humidity	95% (max.)		n (inch)	
RF interference	No Alarm 30 V/m		cifications and design are subject to change without price	

13 COMPLIANCE

EMC Directive (SX-360Z) 2004/108/EC EN50131-1 Grades and Environmental Class: EN 50130-4: 2011 EN 55022: 2010 PD6662:2010

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



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11 TROUBLE SHOOTING AND MAINTENANCE

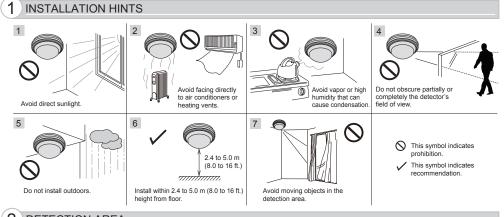
PROBLEM	PROBABLE CAUSE	REMEDY	
	Incorrect power supply voltage. (disconnection, or low voltage)	Correct supply voltage to 9.5 - 18 VDC.	
LED does not light.	Incorrect detection area.	See section 2 and section 7.	
	Incorrect polarity to detector.	Switch positive and negative at terminal.	
	LED switch is OFF Turn on the Switch. See see		
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.	



360° CEILING MOUNT PASSIVE INFRARED DETECTOR SX-360Z, SX-360ZV

FEATURES

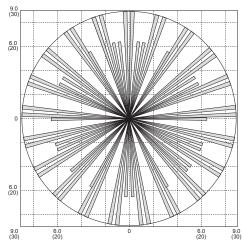
- Ceiling mount 360° PIR detector
- Zoom area adjustment : ø18 m (ø60 ft.) at 2.4 –5.0 m (8 –16 ft.)
- High density detection area with 276 zones
- Selectable sensitivity (High, Medium or Low)
- Selectable pulse count (TEST, 2 or 4)
- Initial alarm memory (SX-360ZV)
- LED remote control terminal



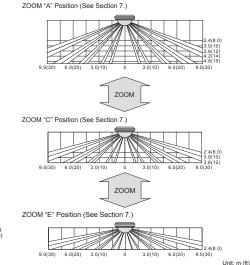
-1-

2 DETECTION AREA

TOP VIEW



SIDE VIEW



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

INSTALLATION INSTRUCTIONS

-4-

This unit is designed to detect movement of an intruder and activate an

Note>>

- 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. • 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.

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3 PARTS IDENTIFICATION

- POWER INPUT

WIRE SIZE

1

AWG22 (0.33 mm²)

AWG20 (0.52 mm²)

AWG18 (0.83 mm²)

Power wires should not exceed the following length:

6 SENSITIVITY ADJUSTMENT

ø9.0 to ø18 m

(ø30 to ø60 ft.)

height and detection area. (See section 7.)

Before making adjustments, determine the mounting

12V

320 m (1070 ft)

510 m (1700 ft)

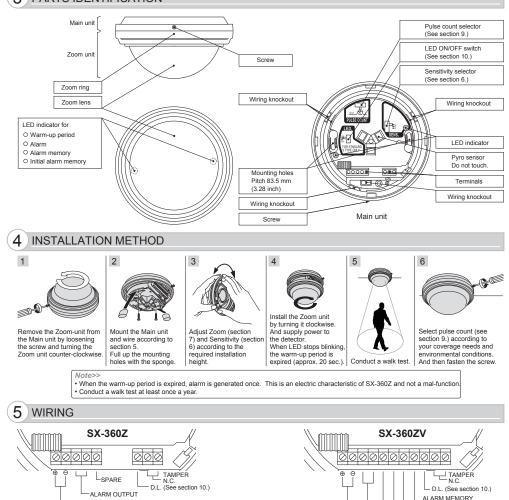
SX-360Z

14V

650 m (2140 ft)

2.4 to 5.0 m

(8.0 to 16 ft.)



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.)

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



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

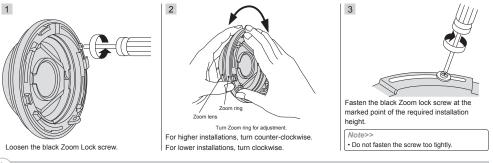
A suitable control panel is required for alarm memory.

memory function while system is armed.

· 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

≪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.

2 Reset

Note>>

1 System status

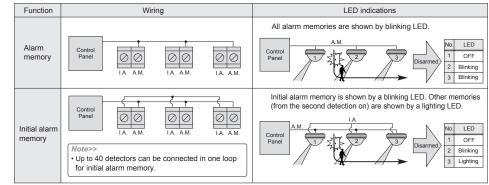
The detector recognizes whether the system is armed or disarmed by detecting the voltage of control panel output

unough the A.W. terminal.				
Status	Control panel output			
System armed	0 - 1 VDC (grounded)			
System disarmed	Open			
"arounded"= A M. terminal is electrically connected				

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

supply terminal (ground).

3 Wiring and LED indications



9 PULSE COUNT ADJUSTMENT

Δ



(See section 8.)

(See section 8.)

SPARE

м

ø12 to ø15 m

(ø40 to ø50 ft.)

н

ø15 to ø18 m

(ø50 to ø60 ft.)

ALARM OUTPUT

POWER INPUT

Select the sensitivity "H (High)", "M (Medium)" or "L (Low)".

ø9 0 to ø12 m

(ø30 to ø40 ft.)

of detection area.

SENS.

DIAMETER OF

DETECTION AREA

The following chart shows recommended setting for diameter

SPARE Two spare terminals are electrically

INITIAL ALARM MEMORY

connected on the circuit board.

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.			

-2-

SX-360ZV

• 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.

14V

460 m (1530 ft)

730 m (2400 ft)

• 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.

12V

230 m (770 ft)

2

1020 m (3400 ft) 360 m (1200 ft)

820 m (2700 ft) 1600 m (5300 ft) 570 m (1900 ft) 1150 m (3800 ft)