

PASSIVE INFRARED

WONDEREX

FX-360, FX-360L, FX-360L(P), FX-360S

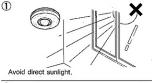
(Alarm Memory)

(Form C

FEATURES

- O Ceiling Mount Type 360° PIR Detector.
- O Selectable pulse count 2 or 4.
- O LED ON/OFF remotely from the control panel or at the detector.
- O Alarm Memory (FX-360L, FX-360L(P))
- O Form C Relay (FX-360S only)
- OUL Listed only for models FX-360, FX-360S



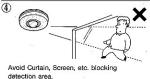


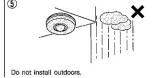


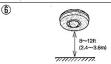




Avoid vapor or high humidity that can cause condensation.

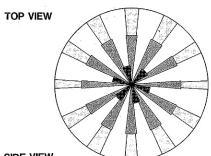






Install within 8~12ft (2.4~3.6m) height from floor.

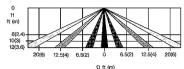
II. DETECTION AREA



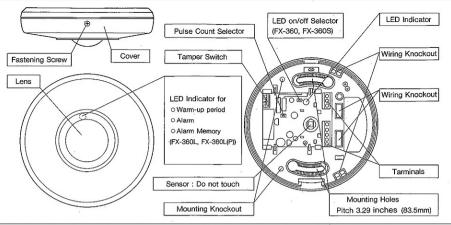
MAX.	Detection	AREA
100000000000000000000000000000000000000		-

Installation Height ft (m)	8 (2.4)	10 (3)	12 (3.6)
Detection Area (Diameter) ft (m)	25 ⁻ (8)	32 (10)	40 (12)

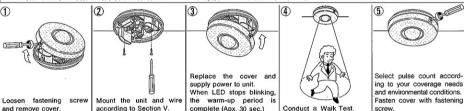
SIDE VIEW

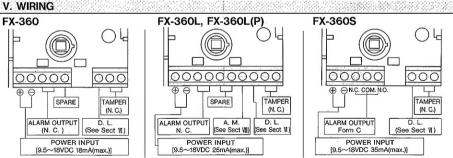


III. DESCRIPTION AND OPERATION









Power wires should not exceed the following lenghts.

	FX-	360	FX-360L, I	X-360L(P)	FX-3	360S
WIRE SIZE	12V	14V	12V	14V	12V	14V
AWG22 (0.33mm²)	1070' (320m)	2140' (650m)	770' (230m)	1530' (460m)	500' (150m)	1070' (320m)
AWG20 (0.52mm²)	1700' (510m)	3400' (1020m)	1200' (360m)	2400'(730m)	870' (260m)	1730' (520m)
AWG18 (0.83mm²)	2700' (820m)	5300' (1600m)	1900' (570m)	3800' (1150m)	1370' (410m)	2730' (830m)

●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 FX-360 and FX-360S to be connected to a UL listed power supply capable of providing a nominal input of 12VDC (9.5~18VDC) 35mA (max.) [FX-3605] and battery standby time of 4 hours.

MODEL: FX-360, FX360S

- OUse Jumper Pin Switch for LED "ON" "OFF" as shown.
- O Use D. L. terminal to turn LED ON-OFF from control panel remotery.
 - i) Place Jumper Pin Switch in OFF position.
 - ii) LED On : Connect D. L. terminal to common ground with detector LED Off : No connection to the D. L. terminal.

MODEL: FX-360L, FX-360L(P)

Use D. L. terminal as follows, (No Jumper Pin in this model)

LED can be turned ON-OFF at the detector or remotely at the control panel.





D ON LED OFF

25 111 1111 1111 1111 1111 1111 1111 11	Remotely	At the Detector
LED Enabled	Connect DL terminal to common ground (with detector).	Connect (-) terminal of power input to DL terminal.
LED Disabled	No ground to DL terminal (open circuit).	No connection to DL terminal (open circuit).

O LED operation of Alarm Memory (FX-360L, FX-360L(P))

LED will remain lit for alarm memory even when the LED is disabled during normal operation.

VII. PULSE COUNT

Select 2 for regular applications, For unstable environments, select 4, Shift Pin Switch as shown,

* NOTE ON PHUSE COUNT DURING WALK TEST

Once initial movement is detected during the walk test, subsequent movements that are within the delayed timer period (approx. 20 seconds) will overlide the pulse count setting and cause an instant trigger.

This feature assures location of each detection zone and accelerates the confirmation of pattern coverage in the walk test.





VIII. ALARM MEMORY (FX-360L, FX-360L(P))

1. Wiring

Connect control voltage signal terminal (System arming status voltage output terminal) of control panel to A. M. terminal.

MODEL: FX-360L

	Control Voltage Signal
System armed	0~1 VDC (grounded)
System disarmed	OPEN

MODEL: FX-360L(P)

	Control Voltage Signal
System armed	+5~20VDC
System disarmed	0~1 VDC (grounded)

(Must have common ground with sensor)

2. Operation of Alarm Memory

- If the unit is triggered during an armed period, when the system is disarmed, its LED will remain lit to confirm that it reported the alarm.
- O Alarm Memory will operate whether LED is disabled or not.
- O Alarm Memory will not latch while system is disarmed.
- OLED operation and alarm output are not affected by alarm memory when system is armed.

3. Reset

Alarm memory resets automatically when system is re-armed. Optional compatible control panel required.

IX. TROUBLE SHOOTING AND MAINTENANCE

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

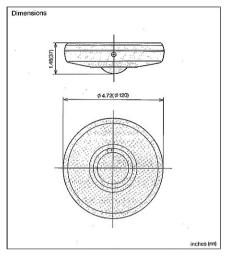
X Conduct a walk test at least once per year.

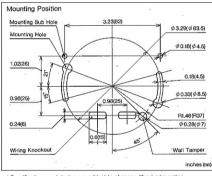
X. SPECIFICATIONS

Model	FX-360		
Detection method	Passive Infrared		
1.454.12	Ø25ft∼Ø40ft/(Ø8m∼Ø12m)		
Coverage	Height 8ft~12ft/(2.4m~3.6m)		
Detection zones	62 zones		
Sensitivity	3°F (1.6°C) at 2ft/sec (0.6m/sec)		
Detectable speed	1~5ft/sec. (0.3~1.5m/sec.)		
LED indicator	LED is blinking during warm-up period.		
LED Indicator	Alarm indicator optional		
Alarm period	2.0±0.5sec		
Alarm output	N. C., 28VDC 0.2A max.		
Tamper switch	N.C., 30VDC 0.1A max, Opens when cover removed.		
Pulse Count	20±5sec 2 or 4		
Warm up period	Approx 30sec. (LED blinks.)		
Power input	9.5~18VDC		
A STATE OF THE STATE OF	17mA/(normal)		
Current draw	18mA/(max.)		
Weight	4.9 oz (140g)		
Operating temperature	-4°F~+122°F (-20°C~+50°C)		
Environment humidity	95% max,		
RFI interference	No Alarm 20V/m		

L, L(P) Version (Alarm Memory)				
Model	FX-360L FX-360L(P)			
Alarm Memory	System armed:0~1VDC (grounded) See Section VIII	System armed: +5~20VDC See Section VIII		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17mA/(normal)			
Current draw	25mA/(max.)			
Weight	4.9oz (140g)			

S Version (Form C)		
Model FX-360S		
Alarm output	Form C 28VDC 0.2A (max.)	
Current draw	32mA /(normal)	
	. 35mA/(max.)	
Weight	4.9oz (140g)	





*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.



OPTEX CO., LTD.
4-7-5 Nionohama Otsu 520 Japan
TEL(0775)24-1900 FAX(0775)24-3201 TELEX5464852 OPTEX J

OPTEX (U.S.A.), INC.

365 Van Ness Way, Suite 510, Torrance, CA. 90501 TEL(3)10)212-7271 FAX(3)10)212-7604 Toll-Free800-96-OPTEX(800-966-7839)

OPTEX (EUROPE) LTD.
Clivemont Road Cordwallis Park Maidenhead Berkshire SL6 7BU U.K.
TEL(0628)31000 FAX(0628)36311