IX.SPECIFICATIONS

Model	FX-360
Detection method	Passive Infrared
Coverage	ø25 ft - ø40 ft / (ø8 m - ø12 m)
	Height 8 ft - 12 ft / (2.4 m - 3.6 m)
Detection zones	62 zones
Sensitivity	3° F (1.6° C) at 2 ft./sec. (0.6 m/sec.)
Detectable speed	1 - 5 ft./sec. (0.3 - 1.5 m/sec.)
LED indicator	LED is blinking during warm-up period.
	Alarm indicator optional
Alarm period	2.0 ±0.5 sec.
Alarm output	N. C. 28 VDC 0.2 A max.
Tamper switch	N. C. 30 VDC 0.1 A max, Opens when cover removed.
Pulse Count	20 ±5 sec. 2 or 4
Warm up period	Approx 30 sec. (LED blinks.)
Power input	9.5 - 18 VDC
Current draw	17 mA at 12 V DC / (normal)
	18 mA at 12 V DC / (max.)
Weight	4.9 oz (140 g)
Operating temperature	– 4° F - +122° F (–20° C - +50° C)
Enviromental humidity	95% max.
RFI interference	No Alarm 20V / m

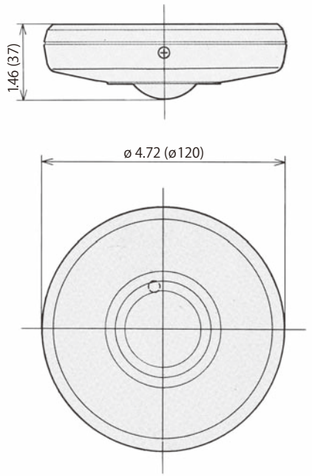
NOTE

This unit is designed to detect 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.

■ **EU & UK contact information**

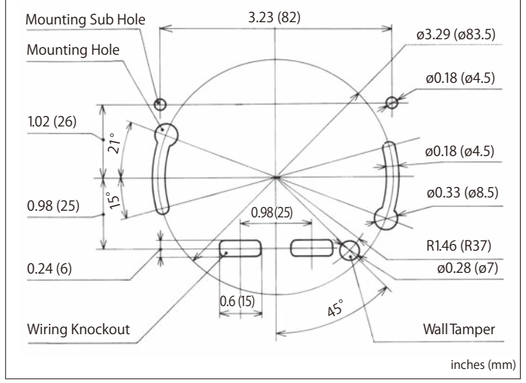
https://navi.optex.net/cert/contact/

Dimensions



inches (mm)

Mounting Position



inches (mm)

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

OPTEX CO., LTD. (JAPAN)
www.optex.net

OPTEX INC./AMERICAS HQ (U.S.)
www.optexamerica.com

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

OPTEX SECURITY B.V. (The Netherlands)
www.optex-europe.com/nl

OPTEX SECURITY SAS (France)
www.optex-europe.com/fr

OPTEX SECURITY Sp.z o.o. (Poland)
www.optex-europe.com/pl

OPTEX PINNACLE INDIA, PVT., LTD. (India)
www.optexpinnacle.com

OPTEX KOREA CO.,LTD. (Korea)
www.optexkorea.com

OPTEX (DONGGUAN) CO.,LTD. SHANGHAI OFFICE (China)
www.optexchina.com

OPTEX (Thailand) CO., LTD. (Thailand)
www.optex.co.th

Copyright (C) 1992-2024 OPTEX CO.,LTD.

No. 5934722-000-02 2603-16

INSTALLATION INSTRUCTIONS

EN

PASSIVE INFRARED DETECTOR

FX-360

FEATURES

- ○ Ceiling Mount Type 360° PIR Detector.
- ○ Selectable pulse count 2 or 4.
- ○ LED ON/OFF remotely from the control panel or the detector.

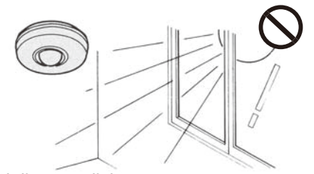
COMPLIANCE

- ○ EN50131-2-2 Security Grade 2, Environmental Class II tested and certificated by Kiwa B.V.
- ○ PD6662 : 2017

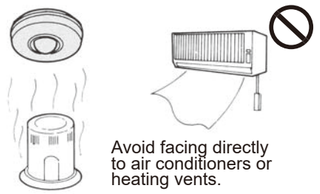
I. INSTALLATION HINTS

The nix ⃠ sign indicates prohibition.

① Avoid direct sunlight.



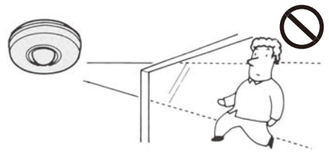
② Avoid facing directly to air conditioners or heating vents.



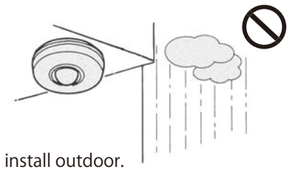
③ Avoid vapor or high humidity that can cause condensation.



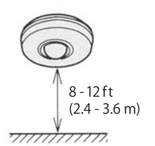
④ Avoid Curtain, Screen, etc. blocking detection area.



⑤ Do not install outdoor.

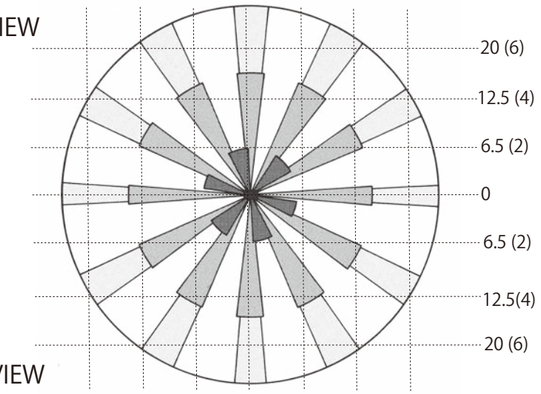


⑥ Install within 8 - 12 ft. (2.4 - 3.6 m) height from floor.

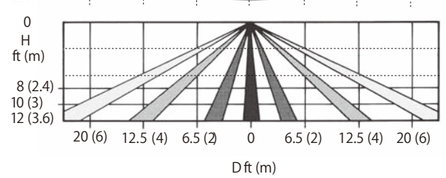


II. DETECTION AREA

TOPVIEW



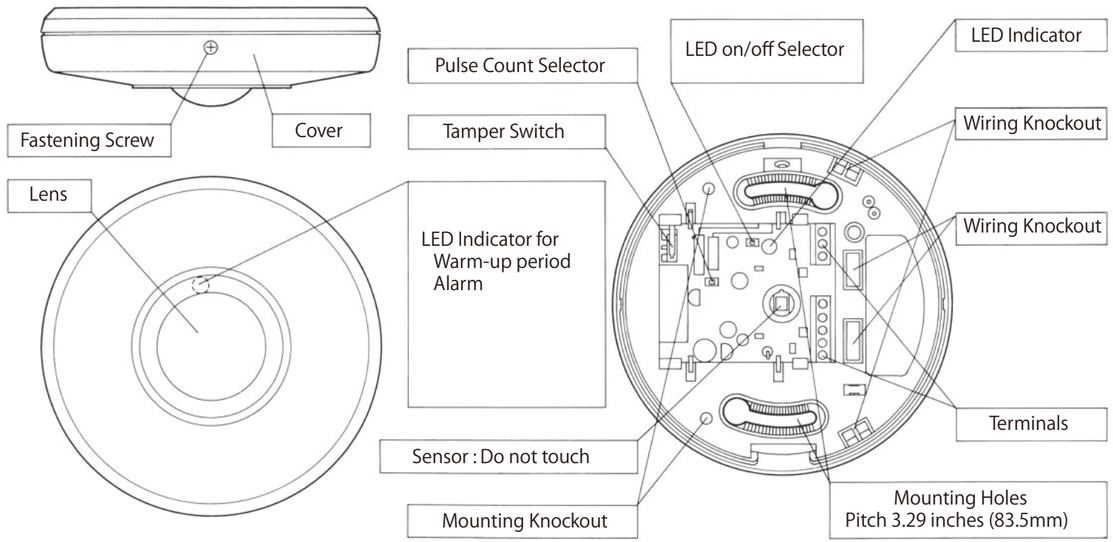
SIDEVIEW



MAX. Detection AREA

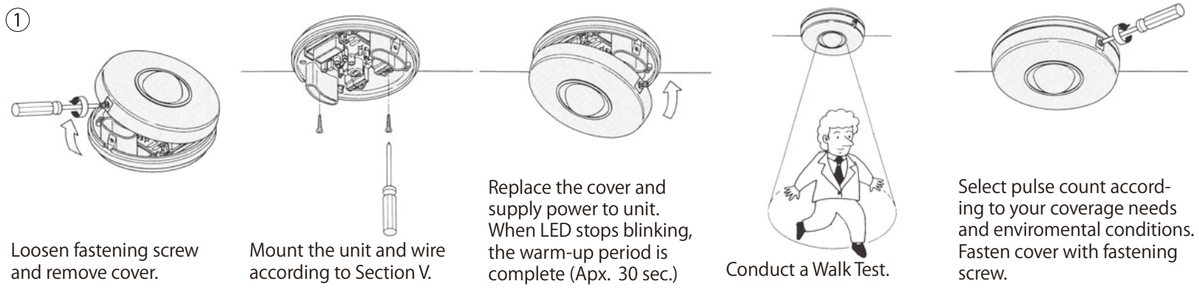
Installation Height ft (m)	8 (2.4)	10 (3)	12 (3.6)
Detection Area (Diameter) ft (m)	25 (8)	32 (10)	40 (12)

III. DESCRIPTION AND OPERATION



IV. INSTALLATION METHOD

①



Loosen fastening screw and remove cover.

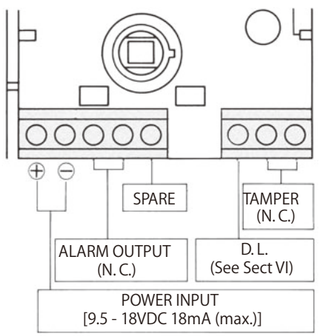
Mount the unit and wire according to Section V.

Replace the cover and supply power to unit. When LED stops blinking, the warm-up period is complete (Apx. 30 sec.)

Conduct a Walk Test.

Select pulse count according to your coverage needs and enviromental conditions. Fasten cover with fastening screw.

V. WIRING



Power wires should not exceed the following lenghs.

	FX-360	
WIRE SIZE	12V	14V
AWG22 (0.33mm²)	1 070' (320 m)	2 140' (650 m)
AWG20 (0.52mm²)	1 700' (510 m)	3 400' (1 020 m)
AWG18 (0.83mm²)	2 700' (820 m)	5 300' (1 600 m)

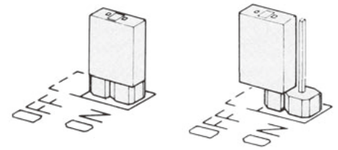
- When using two or more units on one wire, the maximum length is obtained by dividing the above length by the number of units used.

VI. LED ON-OFF

○ Use Jumper Pin Switch for LED "ON" "OFF" as shown.

○ Use D. L. terminal to turn LED ON-OFF from control panel remotely.
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 D.L. terminal.

JUMPER PIN SWITCH

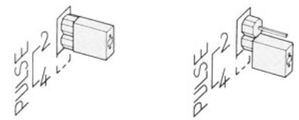


LED ON LED OFF

	Remotely	On the Detector
LED Enabled	Connect DL terminal to common ground (with detector).	Connect (–) terminal of power input to DL terminal.
LED Disabled	No gr ound to DL terminal (open circuit).	No connection to DL terminal (open circuit).

VII. PULSE COUNT

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



2 PULSE * 4 PULSE

* NOTE: ON PULSE 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 override 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.

* Certified to EN, SBSC and INCERT when set to "2 PULSE"

VIII. TROUBLE SHOOTING AND MAINTENANCE

PROBLEM	PROBABLE CAUSE	REMEDY
LED does not light.	Incorrect power supply voltage. (disconnection, low voltage)	Correct supply voltage to 9.5 - 18V DC.
	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.
LED lights even though no person within the detection area.	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 lights but signal is not sent.	Relay contact is stuck or damaged due to overloading.	Check load of output. The unit needs repair or replacement.
	Faulty Wiring	Wire correctly.

* Conduct a walk test at least once per year.