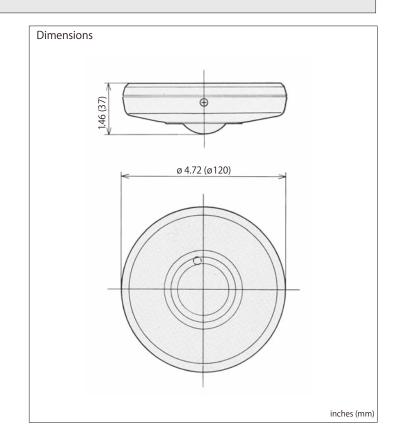
IX.SPECIFICATIONS

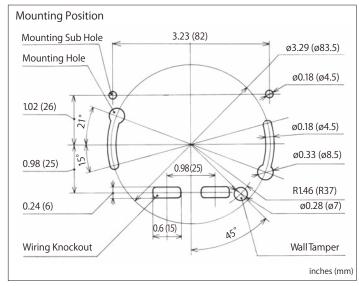
| ModelFX-360Detection methodPassive InfraredCoverage | | | |
|--|-----------------------|---|--|
| Coverage Meight 8 ft - 12 ft / (2.4 m - 3.6 m) | Model | FX-360 | |
| Telepht 8 ft - 12 ft / (2.4 m - 3.6 m) Detection zones Sensitivity Detectable speed LED indicator Alarm period Alarm output Tamper switch Warm up period Power input Current draw Current draw Detectable speed Height 8 ft - 12 ft / (2.4 m - 3.6 m) 62 zones 63 y F (1.6° C) at 2 ft / sec. (0.6 m/sec.) LED indicator LED is blinking during warm-up period. Alarm indicator optional 2.0 ± 0.5 sec. N. C. 28 VDC 0.2 A max. N. C. 30 VDC 0.1 A max, Opens when cover removed. 20 ± 5 sec. 2 or 4 Approx 30 sec. (LED blinks.) Power input 9.5 - 18 VDC 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) Operating temperature Power input 95% max. | Detection method | Passive Infrared | |
| Height 8 ft - 12 ft / (2.4 m - 3.6 m) Detection 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 is blinking during warm-up period. Alarm indicator optional 2.0 ±0.5 sec. Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count 20 ±5 sec. 2 or 4 Warm up period Approx 30 sec. (LED blinks.) Power input 9.5 - 18 VDC Current draw 18 mA at 12 V DC / (max.) Weight Operating temperature -4° F - +122° F (-20° C - +50° C) Enviromental humidity 95% max. | C | ø25 ft - ø40 ft / (ø8 m - ø12 m) | |
| 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 Alarm indicator optional Alarm period Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count Warm up period Approx 30 sec. (LED blinks.) Power input 18 mA at 12 V DC / (normal) Weight Operating temperature Enviromental humidity 3° F (1.6° C) at 2 ft./sec. (0.6 m/sec.) 1 - 5 ft./sec. (0.3 - 1.5 m/sec.) LED indicator Alarm switch N. C. 30 VDC 0.1 A max, Opens when cover removed. 20 ± 5 sec. 2 or 4 Warm up period Approx 30 sec. (LED blinks.) 9.5 - 18 VDC 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) Enviromental humidity | Coverage | Height 8 ft - 12 ft / (2.4 m - 3.6 m) | |
| Detectable speed 1 - 5 ft./sec. (0.3 - 1.5 m/sec.) LED indicator Alarm indicator optional Alarm period 2.0 ± 0.5 sec. Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count Warm up period Approx 30 sec. (LED blinks.) Power input 9.5 - 18 VDC Current draw Weight Approx 20 to 2 (140 g) Operating temperature Enviromental humidity 1 - 5 ft./sec. (0.3 - 1.5 m/sec.) LED is blinking during warm-up period. Alarm indicator optional Alarm indicator optional Alarm indicator optional 2.0 ± 0.5 sec. N. C. 28 VDC 0.2 A max. N. C. 30 VDC 0.1 A max, Opens when cover removed. 20 ± 5 sec. 2 or 4 Approx 30 sec. (LED blinks.) 9.5 - 18 VDC 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) | Detection zones | 62 zones | |
| LED is blinking during warm-up period. Alarm indicator optional 2.0 ±0.5 sec. Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count Warm up period Approx 30 sec. (LED blinks.) Power input 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) Weight Operating temperature LED is blinking during warm-up period. Alarm output 0.2 ±0.5 sec. Alarm output N. C. 30 VDC 0.1 A max, Opens when cover removed. 20 ±5 sec. 2 or 4 Approx 30 sec. (LED blinks.) 9.5 - 18 VDC 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) Current draw Operating temperature Power input 18 mA at 12 V DC / (max.) 4.9 oz (140 g) Operating temperature Power input 95% max. | Sensitivity | 3° F (1.6° C) at 2 ft./sec. (0.6 m/sec.) | |
| Alarm indicator optional Alarm period Alarm output Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count Warm up period Approx 30 sec. (LED blinks.) Power input 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) Weight Operating temperature Enviromental humidity Alarm indicator optional 2.0 ± 0.5 sec. A max. Popers when cover removed. Approx 30 sec. (LED blinks.) 9.5 - 18 VDC 17 mA at 12 V DC / (mormal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) - 4° F - +122° F (-20° C - +50° C) | Detectable speed | 1 - 5 ft./sec. (0.3 - 1.5 m/sec.) | |
| Alarm indicator optional 2.0 ±0.5 sec. Alarm output N. C. 28 VDC 0.2 A max. Tamper switch Pulse Count Warm up period Approx 30 sec. (LED blinks.) Power input 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) Weight Operating temperature Enviromental humidity Alarm indicator optional 2.0 ±0.5 sec. Amax. N. C. 30 VDC 0.1 A max, Opens when cover removed. 20 ±5 sec. 2 or 4 Approx 30 sec. (LED blinks.) Power input 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) 4.9 oz (140 g) Full Country Power input 18 mA at 12 V DC / (max.) 19 perating temperature Power input 10 perating temperature Power input 10 perating temperature Power input Power i | LED indicator | LED is blinking during warm-up period. | |
| 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 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) Weight 4.9 oz (140 g) Operating temperature Enviromental humidity 95% max. | | Alarm indicator optional | |
| 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 17 mA at 12 V DC / (normal) 18 mA at 12 V DC / (max.) Weight 4.9 oz (140 g) Operating temperature Enviromental humidity N. C. 30 VDC 0.1 A max, Opens when cover removed. 4.9 to 2 or 4 Approx 30 sec. (LED blinks.) 9.5 - 18 VDC 17 mA at 12 V DC / (max.) 4.9 oz (140 g) -4° F - +122° F (-20° C - +50° C) | Alarm period | 2.0 ± 0.5 sec. | |
| Pulse Count 20 ±5 sec. 2 or 4 Warm up period Approx 30 sec. (LED blinks.) Power input 9.5 - 18 VDC 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. | Alarm output | N. C. 28 VDC 0.2 A max. | |
| Warm up period Approx 30 sec. (LED blinks.) Power input 9.5 - 18 VDC 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. | Tamper switch | N. C. 30 VDC 0.1 A max, Opens when cover removed. | |
| 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. | Pulse Count | 20 ± 5 sec. 2 or 4 | |
| 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. | Warm up period | Approx 30 sec. (LED blinks.) | |
| Current draw 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. | Power input | 9.5 - 18 VDC | |
| 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. | Comment during | 17 mA at 12 V DC / (normal) | |
| Operating temperature | Current draw | 18 mA at 12 V DC / (max.) | |
| temperature — 4 F - + 122 F (-20 C - +30 C) Enviromental humidity 95% max. | Weight | 4.9 oz (140 g) | |
| Environmental mainting | | - 4° F-+122° F (-20° C-+50° C) | |
| | Enviromental humidity | 95% max. | |
| KHI interference No Alarm 20V / m | 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/





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

OPTEX

No. 59-3472-1 2405-07 UL 59-0523-4 0908-31

INSTALLATION INSTRUCTIONS

PASSIVE INFRARED DETECTOR

FX-360

FEATURES

4

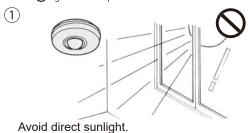
- Ceiling Mount Type 360° PIR Detector.
- Selectable pulse count 2 or 4.
- LED ON/OFF remotely from the control panel or the detector.

COMPLIANCE

- OUL Listed
- EN50131-2-2 Security Grade 2, Environmental Class II tested and certificated by Kiwa B.V.
- OPD6662:2017

I. INSTALLATION HINTS

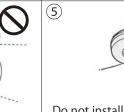




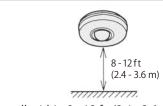




Avoid vapor or high humidity that can cause condensation. heating vents.





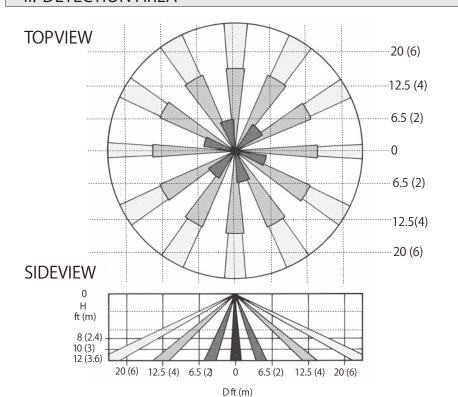


Install within 8 - 12 ft. (2.4 - 3.6 m) height from floor.

II. DETECTION AREA

detection area.

Avoid Curtain, Screen, etc. blocking



MAX Detection ARFA

| MAA, DELECTION ANLA | | | | |
|---|------------|------------|-------------|--|
| Installation Height ft (m) | 8 (2.4) | 10 (3) | 12 (3.6) | |
| Detection Area (Diameter) ft (m) | 25 (8) | 32 (10) | 40 (12) | |

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

OPTEX SECURITY SAS (France)

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

OPTEX PINNACLE INDIA, PVT., LTD. (India)

OPTEX KOREA CO.,LTD. (Korea)

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- 4 -- 1 -

OPTEX

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

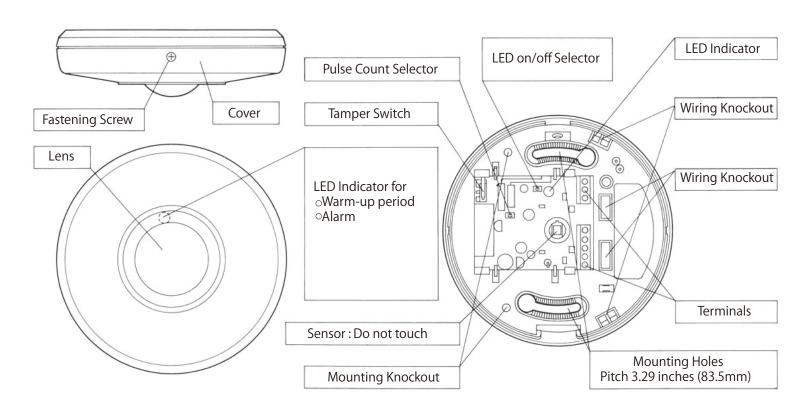
OPTEX SECURITY B.V.

(The Netherlands)

www.optex-europe.com/nl

OPTEX (EUROPE) LTD./EMEA HQ (U.K.)

III. DESCRIPTION AND OPERATION



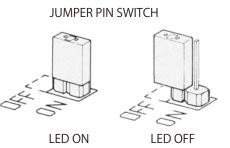
VI. LED ON-OFF

OUse Jumper Pin Switch for LED "ON" "OFF" as shown.

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

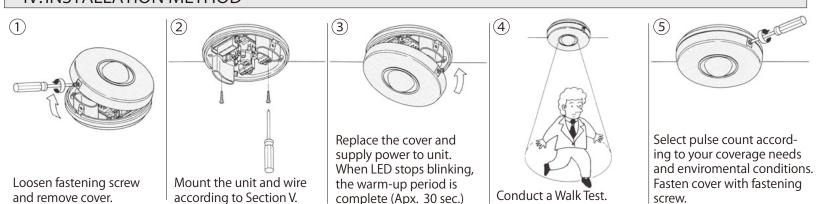
i) Place Jumper Pin Switch in OFF position.

ii) LED ON: Connect D. L. terminal to common ground with detector LED OFF: No connection to D.L. terminal.



| | 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 ground to DL terminal (open circuit). | | No connection to DL terminal (open circuit). |

IV. INSTALLATION METHOD



VII. PULSE COUNT

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

* 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.

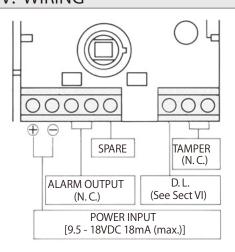
This feature assures location of each detection zone and accelerates the confirmation of pattern coverage in the walk test.





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

V. WIRING



Power wires should not exceed the following lenghs.

| | FX-360 | | |
|------------------------------|----------------|------------------|--|
| WIRE SIZE | 12V | 14V | |
| AWG22 (0.33mm ²) | 1 070′ (320 m) | 2 140′ (650 m) | |
| AWG20 (0.52mm ²) | 1 700′ (510 m) | 3 400′ (1 020 m) | |
| AWG18 (0.83mm ²) | 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.
- UL requires FX-360 to be connected to a UL listed power supply capable of providing a nominal input of 12 V DC (9.5 - 18 V DC) 18 mA (max.) [FX-360], and battery standby time of 4 hours.

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. |

- 3 -

- 2 -

^{*} Conduct a walk test at least once per year.