



XP-25 Series

PIR Intrusion Detectors

25ft (7.6m) L x 35ft (10.6m) W



Description: The XP-25 Series family of motion detectors provides high quality security at an outstanding value. All XP-25 models in the series provide Qualified Motion Analysis, rock-solid RFI Immunity, Digital Operating System, Dual Slope Temperature Compensation and Animal Immunity to 60 lb. (27 kg).

Features Table

Feature Model	Tamper Switch	Lightning Protection	60 lb Animal Immunity	Pulse Count	LED ON/OFF Select
XP-25T	X	X	X	X	X
XP-25		X	X	X	X

Installation

For best performance, position the XP-25 motion sensor so its field of view is free of obstructions, and an intruder will cross the pattern. The sensor may be installed at any height from 6 ft. (1.8 m) to 7 ft. (2.1 m). Optimum mounting height is 7 ft. (2.1m). Avoid aiming the detector at windows and/or areas exposed to direct sunlight; do not mount the unit so it is looking directly at heating or cooling sources. The lockdown feature is not available on these models.

Separate the front and rear covers by first backing out the cover latch screw two full turns. Then use a small screwdriver or similar tool to release the cover latch. To remove the PCB, push the PCB latch away from the board while grasping a terminal block and pulling the PCB out of the cover.

Wire the XP-25 to the control panel using 18 to 22 AWG conductor, standard non-shielded cable. Avoid running alarm wiring parallel to AC wiring. Wiring knockouts and wire channel are provided in the rear cover for unobtrusive wiring. Terminal block configuration is shown in Fig. 3, below. All wiring should be in accordance with NEC, NFPA 70.

Jumper Settings

Prior to mounting the detector, configure jumper settings as required (see Fig. 2, below).

Pulse Count: The XP-25 series incorporates Qualified Motion Analysis technology. QMA evaluates the PIR signal with respect to ambient temperature over a qualifying time window; a pulse is validated only when the PIR signal meets threshold and timing requirements.

When Pulse Count jumper is covering both pins, PC is set at 1: two to three normal steps are required to trigger an alarm. Parking PC jumper on one pin (or removing jumper) sets PC to 2: four to five steps will trigger an alarm.

LED Enable: When Jumper is covering both pins, the Alarm LED is enabled. The Alarm LED glows when an alarm is signaled at the Alarm Output terminals. LED brightness automatically increases when light level in detection area is high. As room light dims so does LED brightness.

Parking the jumper on one pin (or removing jumper) disables the Alarm LED but has no effect on the alarm output.

Animal Immunity

For installations where animal immunity is needed, mounting height should be no lower than 7 ft. (2.1m). Animal access above floor level (furniture, stairs...) may negate the animal immunity feature of the XP-25.

To ensure Animal Immunity function, do not point detector towards stairways, furniture or room fixtures which animals have access to.

Fig. 1 Cover Component Layout

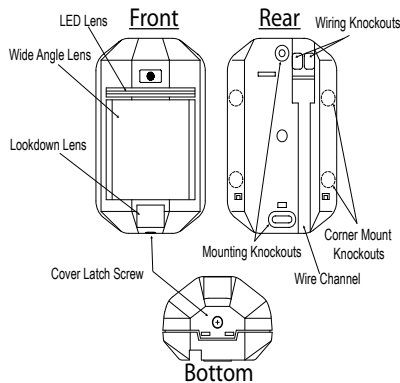


Fig. 2 PCB Layout

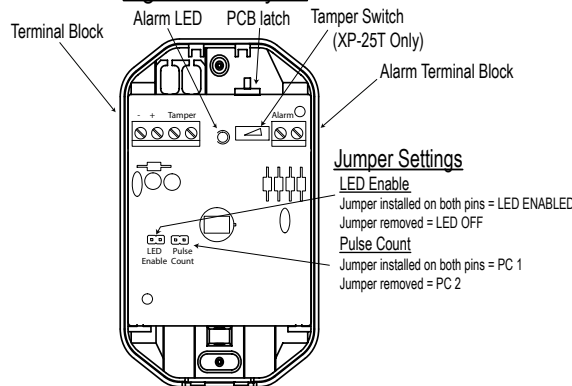
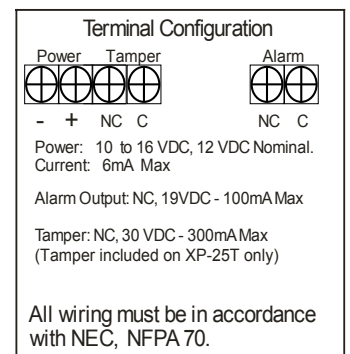


Fig. 3 Wiring Configuration



Compliance Information:

FCC Part 15 Class B Verified
ICES-003 Class B Verified

This device complies with Part 15 and ICES-003 of the FCC and Industry Canada Rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

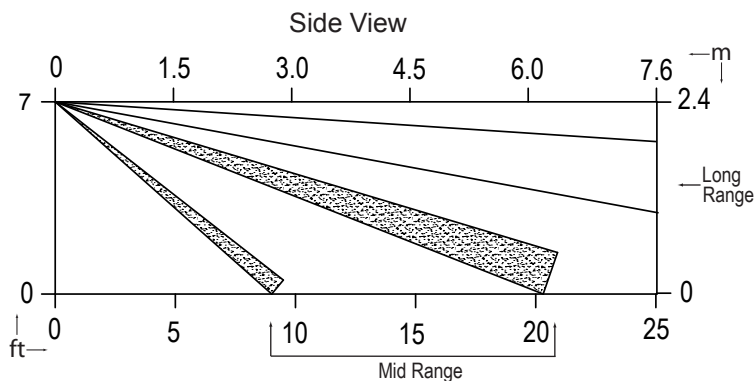
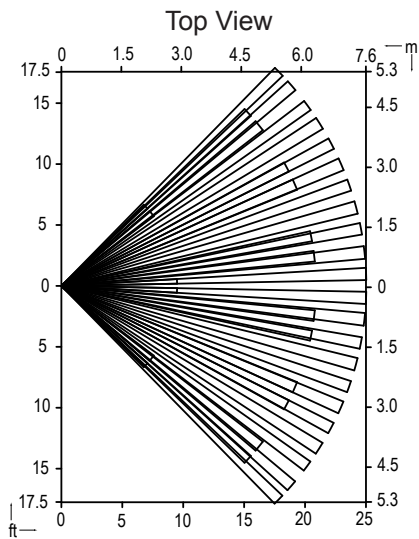
Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Patent Information:

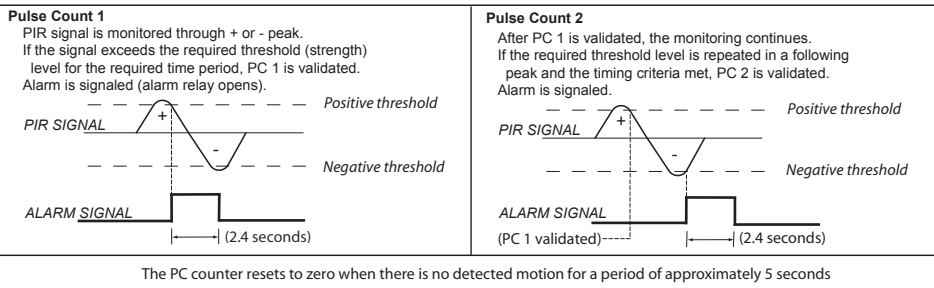
US & International Patents Pending

Detection Pattern

40WASTD Wide Angle Lens



Alarm Signaling and Pulse Count



Automatic LED Brightness

The XP-25 Series LED alarm indicator includes an automatic brightness function. In order to allow for a less noticeable installation, LED brightness is reduced as ambient room light level drops.

The LED can be fully disabled by removing the LED jumper.

Notes:

- This detector is designed to be incorporated into an alarm system. As it is part of a system, ALEPH cannot assume responsibility for theft or damage if the system fails to operate.
- This sensor provides an "Animal Immunity" rating of 60 lbs (27 kg). In most situations, any combination of animals with a total combined weight of 60 lbs or less, at floor level, will not be detected. Animal Immunity properties do not apply for animal movement on furniture, stairs, or other elevated surfaces within the sensor viewing area.

FCC/IC Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 and ICES-003 of the FCC and Industry Canada Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is needed.
- Consult the dealer or an experienced radio / TV technician for help.

The user should not modify or change this equipment without written approval from ALEPH. Modification could void authority to use this equipment.

Troubleshooting

Trouble	Cause	Remedy
Unit does not power up.	No or low input power. Input power polarity reversed.	Apply proper input voltage. Correct wiring polarity.
Alarm LED does not light.	LED jumper is set to "LED OFF". Incorrect sensor mounting height. Pulse Count setting incorrect for secured area.	Set LED jumper to "LED ENABLED". Increase / decrease mounting height. Set pulse count jumper to suit the required detection characteristics.
Alarm LED / Relay triggers without movement in detection area.	Unsecured environment : Animals / rodents in detection area. Heater /air conditioning equipment in sensor view. Direct sun or headlights in sensor view.	Block access of animals/rodents. Re-aim sensor. Add curtain / shade to block light sources.
LED indicates Alarm, no alarm output.	Incorrect wiring at alarm output terminals. Lightning damage.	Correct wiring fault. Replace sensor.
Alarm LED on constantly, no fault in protected area or wiring.	Defective Unit.	Replace sensor.

Maintenance

- **INSPECTION:** An inspection of this unit should be made periodically, consisting of, but not limited to all mounting, wiring, and the condition of the interior area and components.
- **CLEANING:** Clean the plastic parts of this unit with a soft, clean, cloth dampened with water.
- **TESTING:** This unit should be tested routinely for proper operation. At a minimum, operation should be fully checked yearly.

Available accessories:

- XP-WM Wall-mount bracket

Specifications

	Common for all models except where noted
Voltage	10 to 16VDC
Current Draw	6 mA maximum, 4 mA nominal
PIR Type	Dual Element
Pulse Count	Qualified Motion Analysis - 1 or 2 pulse, selectable
Warm Up Time	15-30 sec
Alarm Period	2.4 seconds, retriggerable
Visual Display	Red LED (Selectable On/ Off)
Alarm Output	NC, solid state, 19VDC, 100mA, 13 ohms resistance typ.
Tamper Output	NC, Dry Contact 30VDC, 500mA, 5W Max (XP-25T only)
Mounting Height	6.0 to 7.0 ft (1.8 to 2.1m)
Operating Temp.	14°F to 131°F (-10°C to 55°C)
Environmental	95% humidity non-condensing
Weight	3.0 oz / 83.5 g
Dimensions	3.9 in H x 2.5 in W x 1.7 in D / 98mm x 64mm x 42mm

© 2008 Aleph America Corporation
All rights reserved

Contact Aleph

Nippon Aleph Corporation
-Security Products Headquarters-
9F/B Urbansquare-Yokohama BLD.
1-1 Sakaecho, Kanagawa-KU
Yokohama-SHI, Kanagawa-KEN, 221-0052
JAPAN
Tel: 045-450-1130 / Fax: 045-451-0301
E-mail: security@po.nippon-aleph.co.jp
WEB: <http://www.nippon-aleph.co.jp>

Aleph America Corporation
4700 Aircenter Cir, Reno, NV, 89502
USA
Tel: 775 827 8000 / Fax: 775 827 8044
E-mail: info@aleph-usa.com
WEB: <http://www.aleph-usa.com>

Aleph Europe Ltd.
1 Newton Close, Park Farm Industrial Estate
Wellingborough, Northamptonshire, NN8 6UW
England
Tel: 044 193 367 9600 / Fax: 044 193 340 1165
E-mail: info@alepheurope.com
WEB: <http://www.alepheurope.com>