



XC-1XT SERIES

Outdoor Dual Technology Intrusion Detector

40FT L X 56 W (12m x 17m)



Description: XC-1XT provides unsurpassed wide area unsecured outdoor intrusion detection. Combining Microwave & PIR detection technologies the XC-1XT ensures excellent coverage without nuisance alarms. Dual outputs allow the use of a single detector for annunciation and security, or allow multiple functioning via different control device assignments.

Installation:

For best results install the XC-1XT at a mounting height between 6.6 ft.(2.0m) and 8.2 ft. (2.5m). Mount the unit so it is looking into an area free of obstructions, do not mount the unit so it is looking directly at heating or cooling sources. Avoid viewing operating machinery or objects which have the potential for movement. Do not aim unit so it is looking at public road / pathways.

Wire the XC-1XT to the control panel device using 18 to 24 AWG standard non-shielded wire, do not run wiring parallel to AC wiring. Wiring should be in accordance with NEC, NFPA 70 for North America.

Prior to re-attaching front cover to unit; Set PIR sensitivity, PulseCount, LED Enable, Detection mode, and 50/60Hz Fluorescent Light immunity setting (Selectable Switch 1,2,3,4,5, and 6) as desired.

If the detector is viewing a narrow area, a PC setting of 4 should be avoided, as the small area may not allow enough movement to detect intruders. A PC of "4" is best suited for a wide open detection area. For High Security applications set PIR Sensitivity to "High Sensitivity" =(SW1 & 2 = 120% or 100%), this allows for a quicker detection at the edge of the detection area. Animal Immunity characteristics are not available when a "High Sensitivity" setting is configured on the XC-1XT. Animal Immunity function is enabled by placing PIR Sensitivity at 60%. Use Microwave Sensitivity adjustment potentiometer to adjust Microwave sensitivity (Preset @ 50%). A properly adjusted MW will detect crossing movement just inside the protected area but not outside of the PIR coverage area.

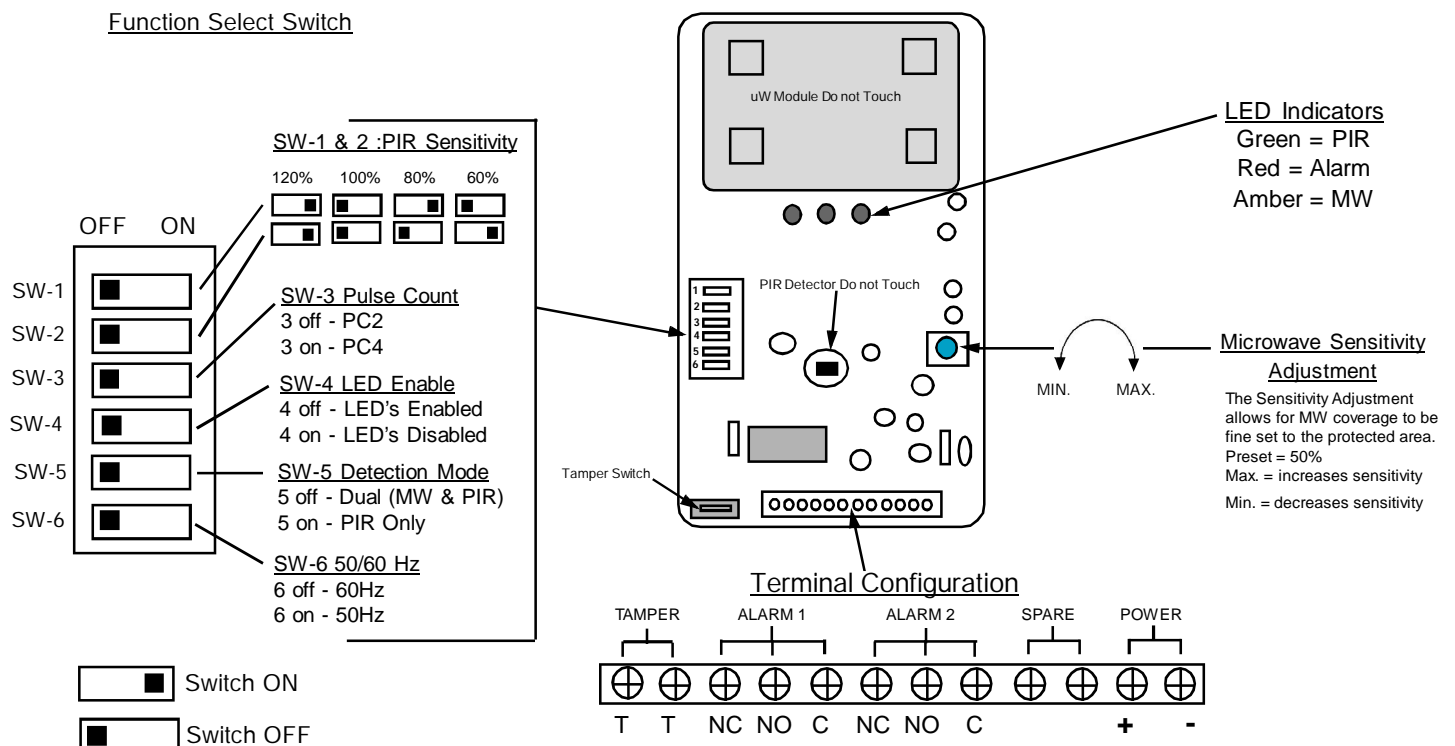
SW-5 allow for the selection of Dual-Technology (MW & PIR) or PIR only detection modes. A PIR only detection mode is useful when there is operating machinery or exposed fans always active within the protected area.

If the installation site is subject to severe vibrations (via close proximity to railroad tracks and /or large truck movement), ensure that the mounting point is on a rigid surface. In some situations it may be necessary to place a piece of plywood between the mounting surface and the XC-1XT detector to buffer wall movement.

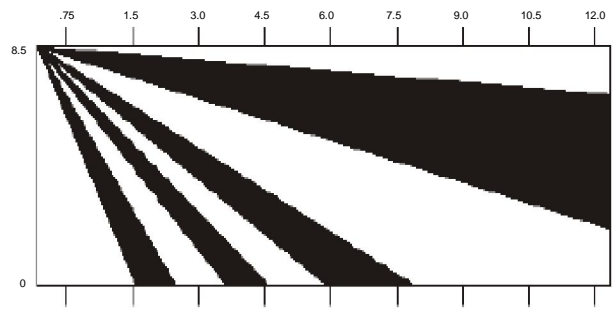
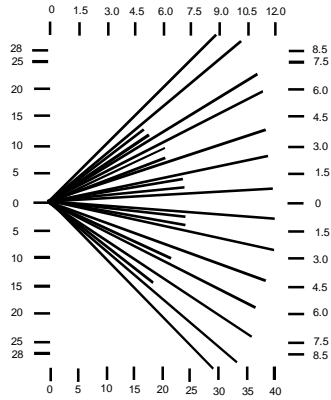
Walk-Test:

Once installation and initial setup is complete, perform a full walk test to insure that the detection parameters are met, if required make control adjustments to fine tune detection characteristics. In order to insure detection quality, the XC-1XT should be tested routinely, with no more than a one year period between tests.

Control Layout and Configuration:



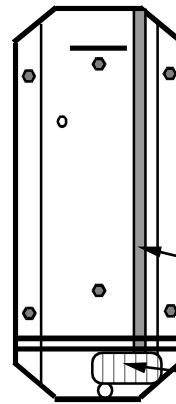
DetectionPattern Illustration(Standard Lens)



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 up.	SW-4 is set to ON/ Disabled Detection Sensitivity setting incorrect. Pulse Count setting incorrect for area.	Set SW-4 to "OFF". Set SW-1 & 2 and/or MW range adjustment to match desired area. Set SW-3 to correct PC.
Alarm LED/ Relay Triggers W/O movement in the detection area	Incorrect Sensor mounting height. Unsecured environment animals/rodents in protected area. Machinery operating in sensor view Direct sunlight/headlight in sensor view. Severe vibration at mounting wall.	Increase/Decrease mounting height. Block animal/rodent access. Remove the hazard / Re-aim sensor so it is not viewing hazard/machinery. Switch detection mode to "Dual", add curtain/shade to block light sources. Buffer mounting with plywood. Relocate XC-1XT mounting position.
LED indicates alarm, no alarm output	Incorrect wiring at alarm output terminals. Open circuit in wiring between detector & control panel. Lightning damage to detector and/or control panel.	Correct wiring fault. Replace/ Repair wiring. Replace damaged equipment.

Rear Cover (Interior View, PCB removed)



● = Six Mounting Points available.

When installing this unit in a corner mount application, install screws into one side of the case. Installing screws into both sides of the case when walls are uneven causes the plastic case to become distorted thus water can be allowed entry into the unit.

Exterior Wiring Channel

After wiring, install the foam wiring access bug guard to prevent ingress of dust and insects.

MODEL : XC-1XT

FCC Information:

FCC ID: DNHXC-002-00

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC 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 connected.
- 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.

Aleph hereby declares that the XC-1XTEU and XC-1XTUK Intrusion Detector is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The declaration of conformity may be consulted at <http://www.alepheurope.com/>

MODEL : XC-1XTEU

MODEL : XC-1XTUK

(European info here)

Testing and 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 components.
- **CLEANING:** Clean the external plastic parts of this unit with a soft, damp cloth.
- **TESTING:** This unit should be tested routinely for proper operation. At a minimum, operation should be fully checked yearly.
- **NOTES:** This unit is designed to be incorporated into an overall alarm system. As it is part of the system ALEPH cannot assume responsibility for theft or damage if the system fails to operate.

Specifications

Power Requirements	9.5-16 VDC, 12VDC Nominal	Alarm Output	Two Form C (NC/NO) outputs 30 VDC/350mA Max.
Current Draw	35 mA Max.	Tamper Output	NC/ 30VDC/500mA
Warm Up Period	<50 Seconds	Operating Temperature	-4°F to +122°F (-20°C to +50°C)
Alarm Period	2.4 Seconds	Humidity Limits	95% Max. Non-condensing
LED Indicators	Red = Alarm Amber = Microwave Green = PIR	Dimensions (H x W x D)	6.3in.(L) X 2.76in.(W) X 1.73in.(D) (160mm x 70mm x 43.9mm)
Weight	6.2 oz. (176 g)	PIR Detector Type	Dual Element
MW Detector Type	10.525GHz (US and EU) 10.687GHz (UK)	Range Stand. Lens	40ft L x 56ft W
		Range Optional Lens (Curtain)	80ft L x 8ft W
PIR Sensitivity	Four Adjustable Settings 60%, 80%, 100% and 120%	Pulse Count	2 or 4 Step Catch
MW Range adjustment	Adjustable via a Potentiometer	IP Rating	IP54
Mounting Height	6.6 ft (2.0m) to 8.2ft (2.5m)		

In a continuing effort to improve product performance, specifications and design characteristics may be changed without prior notice.

U.S. & International Patents Pending

Contact Aleph

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