XC-1XT

Outdoor Dual Technology Intrusion Detector

40ft L x 56 ft W

Description: The 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 allows the use of a single detector for annunciation and security, or allows multiple functioning via different control device assignments.

Installation:

For best results install the XC-1XT at a mounting height between 6.6 ft (2.4m) 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-shelided wire, do not run wiring parallel to AC wiring. For UL installations, all wiring must be in accordance with NEC, NFPA 70. Wiring Connection configuration is specified at the top of page two.

Prior to re-attaching front cover to unit; Set PIR Sensitivity, Pulse Count (PC), LED configuration, Microwave Range and Single / Dual Mode settings (Selectable Switch1, 2, 3, 4, and 5 (Ref page 2)) 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" = (SW-1 & 2 = 120% or 100%), this allows for a quicker detection at the edge of the detection area.
Pet Immunity characteristics are not available when a "High Sensitivity" setting is configured on the XC-1XT.
Pet Immunity function is enabled by placing PIR Sensitivity Setting at 60%.
Use POT - "VR01" 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 allows 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 mounting point is on a ridged surface. In some situations it may be necessary to place a piece of plywood between the mounting wall 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 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 test.

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 OFF / Disabled Detection / Sensitivity settings incorrect. Pulse Count setting incorrect for area. Incorrect Sensor mounting height.	Set SW-4 to "ON". Set SW-1 & 2 and/or MW range adjust to match desired area. Set SW-3 to correct PC. Increase/Decrease mounting height.
Alarm LED / Relay Triggers W/O movement in the detection area.	Unsecured environment animals / rodents in protected area. Machinery operating in sensor view. Direct sunlight/headlight in sensor view. Severe vibration at mounting wall.	Block animal / rodent access. Remove the hazard / Re-aim sensor so it is not viewing the 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.

Testing & 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 plastic parts of this unit with a soft, clean, damp cloth.

Testing:
This unit should be tested routinely for proper operation. At a minimum the unit's operation needs to be fully checked yearly.

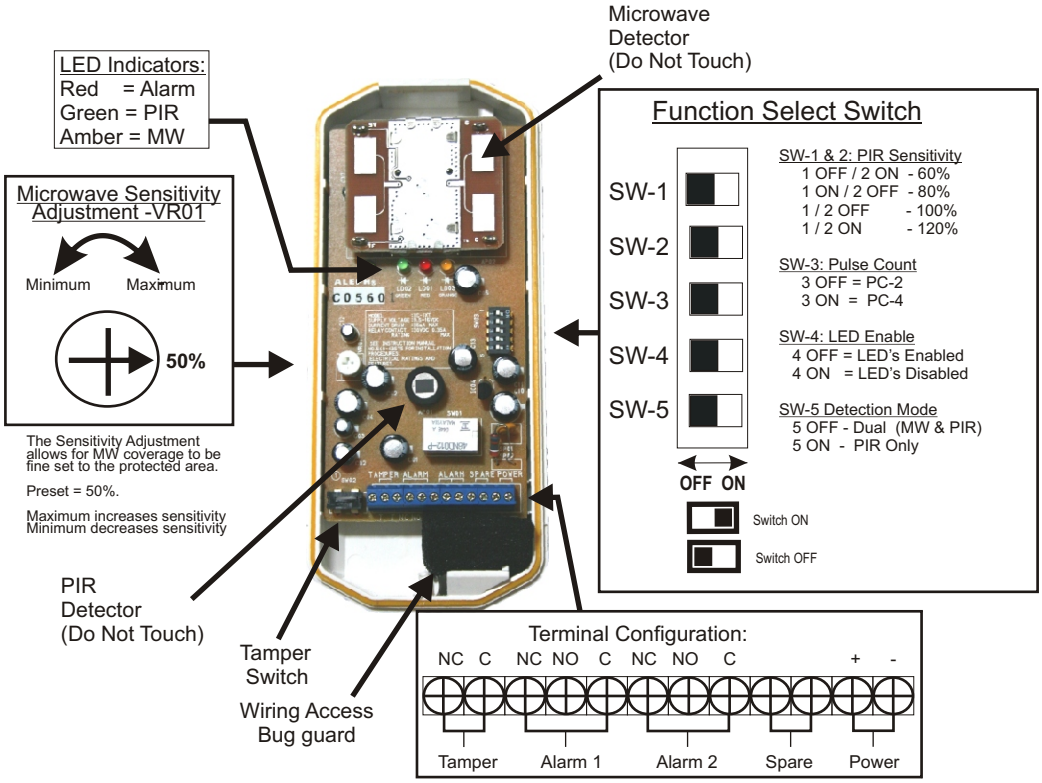
Notes:
This unit is designed to be incorporated into an overall alarm system. As it is part of the system **ALEPH** cannot assume responsibility for theft or damage if the systems fails to operate.

FCC Statement: 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 equipment on and off, the user is encouraged to try and correct the interference by one of the following measures:

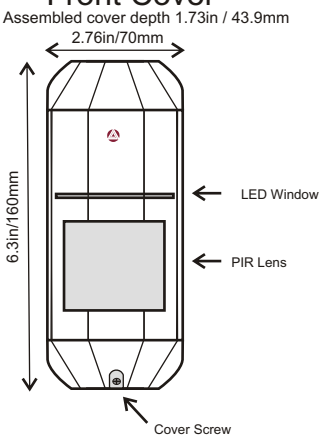
*Reorientate or relocate the receiving antenna.
*Increase the separation between the equipment and receiver.
*Connect the equipment into an outlet on a circuit different than that to which the receiver is connected.
* Consult the dealer or an experienced TV/radio technician for help.

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

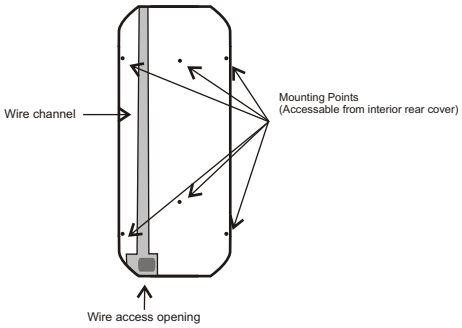
Control Layout and Configuration



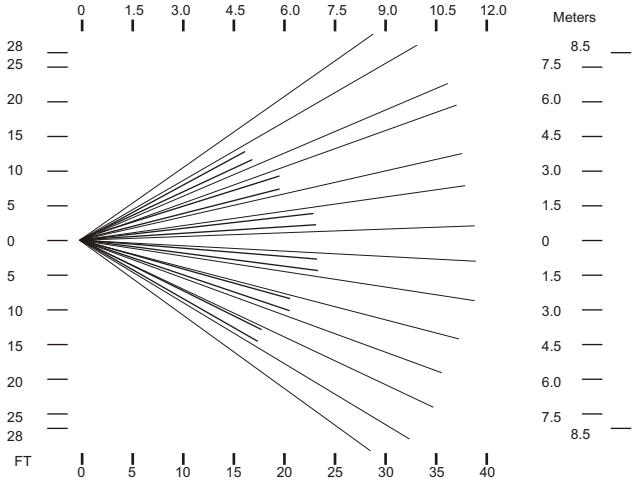
Front Cover

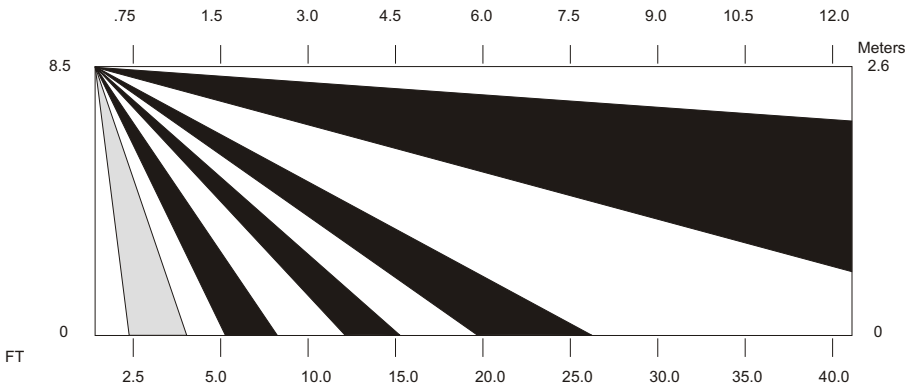


Rear Cover (Exterior View)



Detection Pattern Illustrations (Standard Lens)





Grey = Look Down Zones
Black = Standard Lens Zones

Specifications

Power Requirements	9.5 to 16 VDC	**Alarm Output**	Two Form C (NC/NO) outputs. 30 VDC/ 350mA Max
Current draw	35mA max	**Tamper Output**	NC / 30VDC/500mA
Warm Up Period	50 sec +/- 15 sec	**Operating Temperature**	15°F - +122°F (-26°C - +50°C)
Alarm Period	2 sec +/- 0.4 sec	**Humidity Limits**	95% Max non-condensating
LED Indications	Red - Alarm	**Dimensions (HxWxD)**	6.3in.(L) X 2.76in.(W) X 1.73in.(D) (160mm x 70mm x 43.9mm)
	Green - PIR	**Weight**	6.3oz (180g)
	Amber - Microwave		
PIR Detector Type	Dual Element	In a continuing effort to improve product performance,	
MW Detector Type	MIC Module 10.525GHz	specifications and design characteristics may be	
Range Stand. Lens	40ft L x 56ft W	changed without prior notice.	
Range Optional Lens	80ft W x 8ft L		
PIR Sensitivity	Adjustable Four Settings 60%, 80%, 100%, & 120%		
Pulse Count	2 or 4 Step Catch		
MW Range adjust	Adjustable via Pot VR01		

U.S. & International Patents Pending

XC-1XT:AAC-R1-6:101105

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