

**Effective motion detection is dependent on a sensor's ability to identify intruders and provide true false alarm resistance.** The addressable ceiling-mount motion detector (AMB-500) achieves superior detection through a special fresnel lens made for 360° detection and a quad element PIR sensor optimized for uniform detection all around its field of view. To ensure trouble-free operation for many years, special attention is given to false alarm immunity against RF, static and electrical transients. The detector uses a two-wire connection to the control panel that helps to reduce installation time and cost. The low current draw of the detector helps maximize the number of devices that can be attached to an addressable loop.



## Product Features:

- ▶ Quad element, low noise PIR sensor
- ▶ Patented Multi-Level Signal Processing (MLSP) for accurate detection of human IR energy over a broad range of temperatures
- ▶ 360° detection range
- ▶ High-level static and transient protection
- ▶ Excellent RF/EM immunity
- ▶ Sensitivity adjustment to configure the detector for "normal" (high sensitivity) or "hostile" (low sensitivity) environments
- ▶ Tamper switch
- ▶ Sleek plastic enclosure complements any décor

## Locating the Detector

When choosing a location for the detector, be sure to consider the following:

- Do not aim the detector at reflective surfaces
- Avoid locations that are subject to direct high air flow
- Do not locate the detector near sources of moisture
- Do not locate the detector in the path of direct or reflected sunlight
- Do not place next to large obstructions that may limit the coverage area

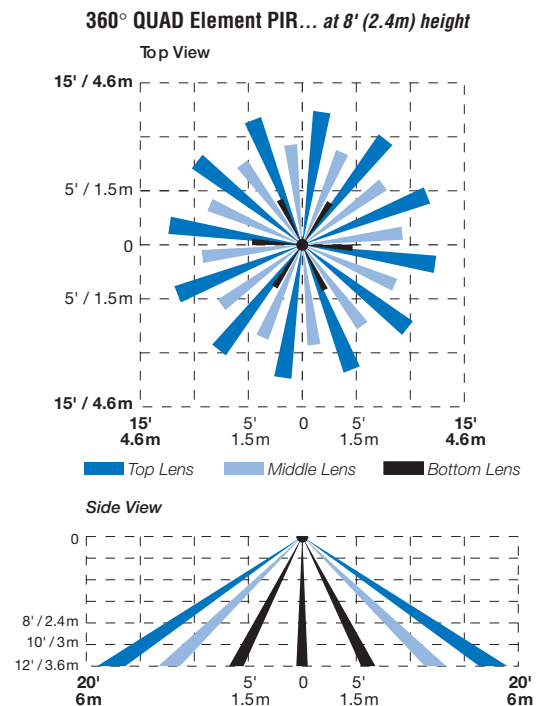
## Accurate Detection

Patented Multi-Level Signal Processing (MLSP) provides for more accurate detection of human IR energy over a broad range of temperatures. It's able to maximize catch performance while providing protection against false alarm sources such as radio interference, air vents and insects.

## Sensitivity Adjustment

The sensitivity of the detector can be adjusted between fast and slow detection modes. In a normal operating environment, the detector best operates in the fast mode. In environments where rapid air movement, heaters and other environmental variables present problems, use the slow detection mode. The detector is factory-set for the fast detection mode.

## Coverage Pattern



## Specifications

Dimensions	4.6" (Ø) x 1.4" (H) (117 mm x 36mm)
Operating Voltage	9 V RMS to 14 V RMS*
Standby Current	2.5 mA
Current in Alarm	2.5 mA
Test Current	5.0 mA
Contact Rating	100 mA @ 24 Vdc
Operating Temperature Range	32° to 120° F (0° to 49° C)
RF/EM Immunity	50 V/m from 0.01 to 1,200 MHz
Relative Humidity	5% to 95%
Static Immunity	25 kV
Transient Immunity	2.4 kV @ 1.2 joules
Walk Detection Speed	0.5 to 10 ft/s (0.15 to 3 m/sec)

\* Compatible with DSC AML (Addressable Multiplex Loop) voltage

### Ordering Information:

AMB-500 ..... Addressable Ceiling-Mount Motion Detector

**DSC**

For product information  
[www.dsc.com](http://www.dsc.com)

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