

ENERLITES®

DUAL-TECH OCCUPANCY LOW VOLTAGE CEILING SENSOR



MODEL NO: MDC-50L

DESCRIPTION

The ENERLITES MDC-50L is a commercial-grade low-voltage ceiling mount sensor that operates lights using a combination of PIR and ultrasonic technologies. Ambient light level detection prevents the occupancy sensor from turning lights ON when the ambient light levels are sufficient. This ceiling sensor is compatible with either LED or fluorescent lights. The sensor is also compatible with the ENERLITES 91245 momentary switch for optional vacancy mode and manual ON/OFF operation. This ceiling-mount motion sensor is ideal for use in offices, classrooms, warehouses, and other commercial areas.

FEATURES

- Passive Infrared / Ultrasonic Technology
- 360° field of view
- DIP switch simplifies sensor adjustments
- Time delay is adjustable from 30 seconds to 30 minutes
- Autoset time delay based on occupancy pattern
- Adjustable PIR/US sensitivity settings
- Adjustable ambient light level to keep load off
- Six trigger logic modes between PIR and Ultrasonic
- LED indicators light flashes when sensor detects motion via PIR/US to verify detection is active
- Zero-crossing for long relay life
- Sensor coverage tested to NEMA WD7-2000

SPECIFICATIONS

Voltage	24 VDC
Current Consumption	20 mA
Power Supply	MPP-24
PIR Coverage	1200 sq. ft.
Ultrasonic Coverage	1000 sq. ft.
Warranty	2 Years

TESTING & CODE COMPLIANCE



APPLICATIONS

- Open Office Spaces
- Classrooms
- Common areas

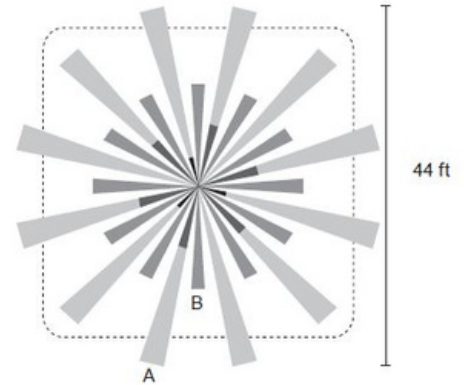
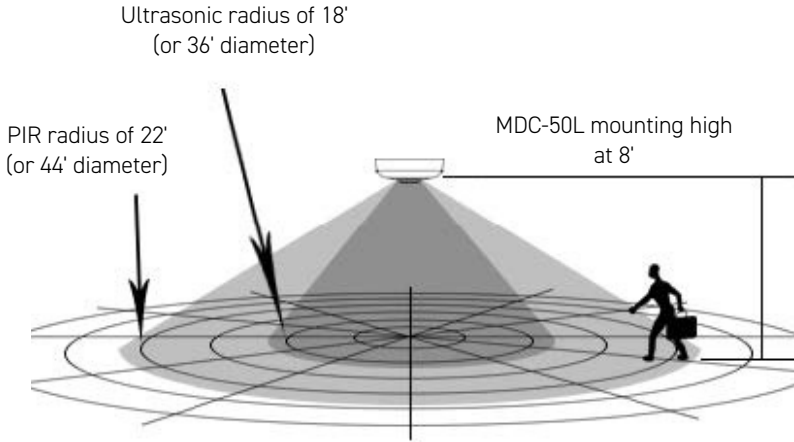
SPECIFICATION SUBMITTAL

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Notes

COVERAGE PATTERN



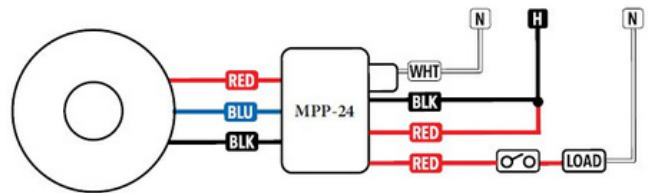
A: When walking across beam, detection will occur at approximately 22 feet.
 B: When walking into beam, detection will occur at approximately 12 feet.

The MDC-50L offers a comprehensive 360° coverage pattern, showcasing the range when mounted at a height of 8-12 feet during walking motion. In spaces with reduced activity levels or hindrances such as obstacles and barriers, the coverage area may diminish. The size of coverage in PIR ONLY trigger mode fluctuates based on the mounting height—refer to the pattern above for specific details. Ultrasonic coverage remains relatively consistent within mount heights of 8-12 feet.

WIRING

RED - Power Input (24 VDC)
 BLACK - Common
 BLUE - Control (OCC)

RELAY OPTION (MPP-24)
 GRAY/RED - Connected for override switch
 ORANGE - Hold On
 BROWN - Hold Off



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