

Enerlites®

DUAL TECH OCCUPANCY LINE VOLTAGE SENSOR



MODEL NO: MDC-50V

DESCRIPTION

The ENERLITES MDC-50V is a commercial grade line 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. This ceiling mount motion sensor is ideal for use in offices, classrooms, common areas, 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	120VAC / 277 VAC, 50/60 Hz
Resistive	6.6A
Tungsten	800W
Electronic Ballast	800VA @ 120VAC / 1600VA @ 277VAC
Motor	1/4 HP
PIR Coverage	1200 sq. ft.
Ultrasonic Coverage	1000 sq. ft.
Warranty	2 Years

TESTING & CODE COMPLIANCE



APPLICATIONS

- Open Office Spaces
- Classrooms
- Common areas

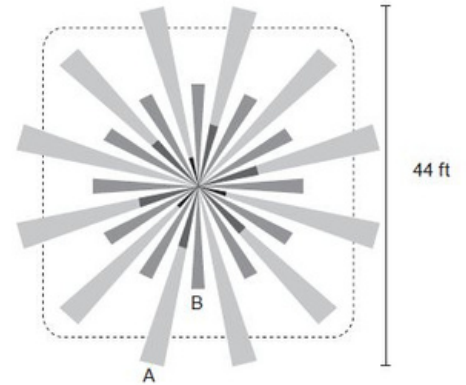
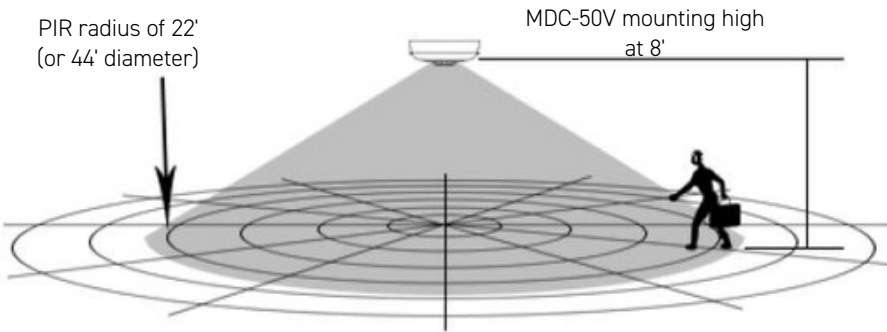
SPECIFICATION SUBMITTAL

Job Name

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Notes

COVERAGE PATTERN

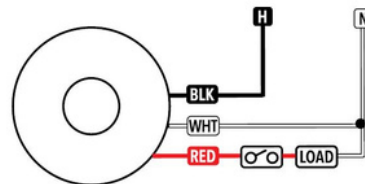


A: When walking across beam, detection will occur at approximately 22 feet.
B: When walking into beam, detection will occur at approximately 12 feet.

The MDC-50V 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.

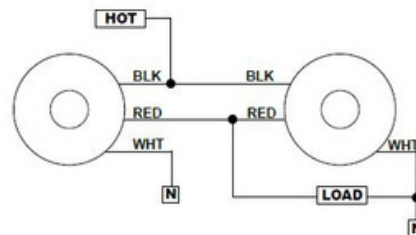
WIRING

BLACK - Line Input
WHITE - Neutral
RED - Load Output



SENSORS IN PARALLEL

Sensors may be wired in parallel; however, the maximum load ratings stay the same.



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