Technical Article

OSFHU Lens Selection

Product: OSFHU
Fixture Mount PIR High-Bay Occupancy Sensor with Three Interchangeable Lenses

Article ID: 091708-tl-01

Date: September 17, 2008

Summary: The purpose of this article is to define the application and use of the different lens options included with the OSFHU.

Information: The OSFHU is designed to support standardization of product throughout a facility by incorporating several lens choices as standard components of the base product. This eliminates the need for facility management and maintenance personnel to identify and stock numerous different products and components for occupancy sensing control. The OSFHU supports low bay, high bay and aisle applications. This technical article defines the application and use of the different lens choices included in the OSFHU.

Each lens has a unique, brightly colored ring to make identification easy when installed.

- **BLUE RING = LOW BAY**
- **WHITE RING = HIGH BAY**
- **BLACK RING = AISLE PATTERN**

LOW BAY (BLUE RING)

- Mounting heights 8 to 20 feet
- While industrial lighting is often generically referred to as “high bay” lighting, this term should be applied to lighting mounted at 20 feet or greater. Many commercial warehouse spaces have a clearance height of 18-20 feet, and applications at or under 20 feet will achieve a greater area of detection with the low bay (**blue ring**) lens. At these heights, the low bay lens yields approximately a 2:1 mounting height to coverage area ratio.

HIGH BAY (WHITE RING)

- Mounting heights above 20 feet up to 40 feet
- The high bay lens (**white ring**) is designed with detection elements to retain focus when mounted up to 40 feet above the detection area. As a result, use of this lens at mounting heights below 20 feet results in a smaller detection area than provided by the low bay lens.

AISLE (BLACK RING)

- Narrow detection pattern
- The aisle lens (**black ring**) uses a masking screen to limit the field of view to a narrow pattern to detect aisles between shelving. The rotating lens permits the sensor to cover aisles either perpendicular or parallel to the fixture.

Please refer to the OSFHU data sheet for load, voltage and coverage specifications.

Contact: If you have any questions or concerns, please call LMS technical support at (800) 959-6004.

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