Fulham®
LIGHTINGCONTROLS™

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Intelligent Sensor

CS-AA-IOP-SR-C
CS-AA-IOP-LR-C

Product Overview

The Intelligent Sensor brings together occupancy and photo-sensing technology as well as control capabilities providing tremendous value in a single sensor.

Build on proven, reliable photosensing and passive infrared sensing (PIR) technology, the intelligent sensor comes in two configurations - long and short range - to best meet the needs of a project. Both configurations provide occupancy timeouts and closed or open loop daylighting customization.

The two configurations have different lens facet patterning and tuned electronics optimizing performance in prescribed applications. A short range sensor has the many overlapping discrete areas of occupancy detection to be sensitive to small motion over a relatively small area. this configuration is best for cubicles, conference rooms and other spaces where people may be present for a long period of time with only subtle movements. The long range detection points do not overlap and minimize false positive occupants detection in areas where occupants will be walking and thus moving across larger spaces. A long range configuration is ideal for hallways, parking garages, common areas and other large spaces.

Product Features

Summary

• Powered by DALI bus - no external power supply required
• Highly configurable and programmed via Software
• Fully configurable operating modes and actions
• Occupancy sensing and ambient light level data
• Compatible with the HorseSense Room, Area, and Building Solutions as well as other standard DALI controllers
• Ideal for classrooms, office spaces, warehouses, hotel rooms, hallways
• 5 year limited warranty

Zone Features

Switching
• Allows for ON/OFF management of the lights in the network logically assigned to its zone
• Utilizes occupancy detection and timeouts for rapid response (<200 ms)

Dimming
• Restores scene and zone settings when occupancy detected
• Customize minimum dimming light level from power off to any light level

Sensor Features

Daylighting
• Enables advanced daylighting capabilities including open and closed loop topologies
• Use in direct light areas for traditional daylighting and in non-daylighting areas to tune ambient light levels to specific values

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Occupancy
• 100% Digital PIR Detection
• Excellent RF Immunity and 360º Coverage Pattern
• Easy to install, no in-field adjustments required
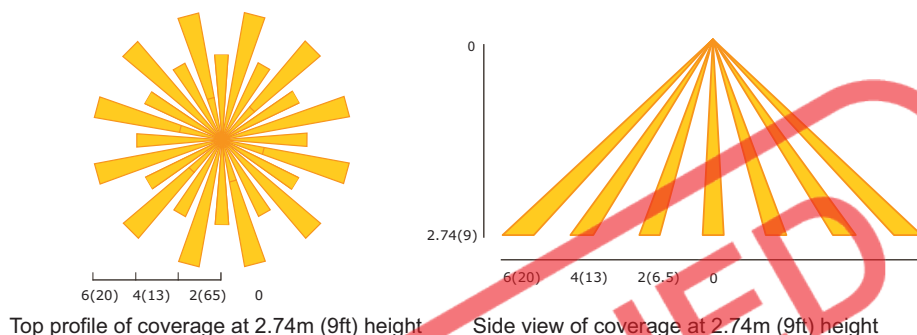
Specifications

Parameter	Value		Parameter	Value
Coverage at 10' height	14' Radius (Short Range)		Ambient Light Sensing	0 - 65,000 lux
	24' Radius (Long Range)			0 - 6,038 foot candles
Viewing Angle	54.5° (Short Range)		Programming Device	DALI compatible controllers and systems
	67.3° (Long Range)			
	both in 360° Conical shape		Max Case Temp	55°C
Occupacy Sensor Timeout	5 sec - 3 hours		Operating Case Temp	0°C to 55°C
Detection Methods	Passive IR, photosensor		Storage Temp Range	-10°C to 70°C
Power Source	DALI bus		Operating Relative Humidity	20% to 90%
Operating Voltage	12-22.5 VDC		Standards	UL Listed, RoHS Compliant, Class 2 Device
Current Draw	2 mA			

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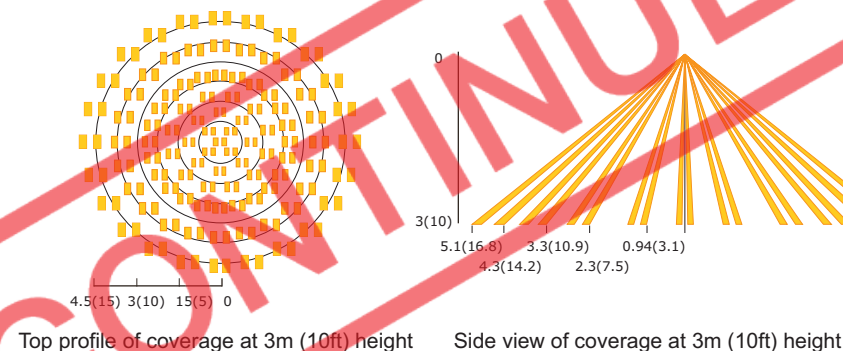
Intelligent Sensor

Coverage Pattern: m (ft)

Long Range Model

Best for Hallways, parking garages and common areas where occupants will be walking across larger spaces, detection bands react to walking occupants while minimizing false positive events. The long range sensor covers a large area 7.31m)24ft.)

0

2.74(9)

6(20)   4(13)   2(65)   0

Top profile of coverage at 2.74m (9ft) height

0

6(20)   4(13)   2(6.5)   0
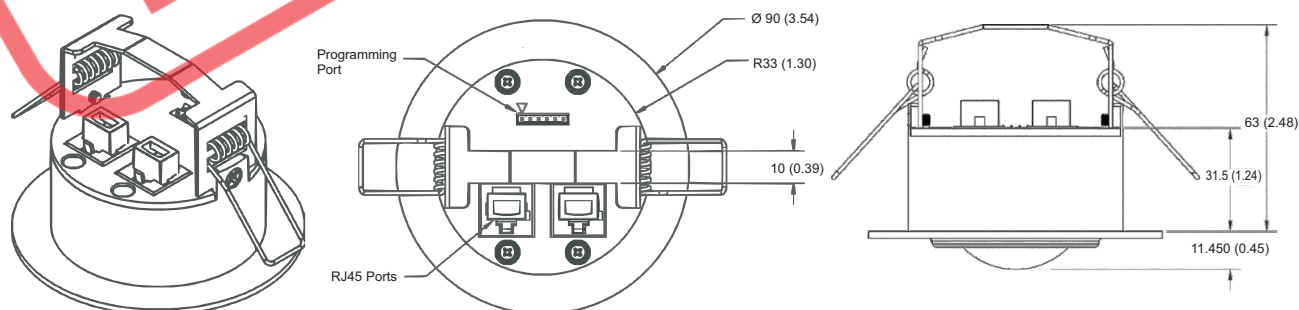
Side view of coverage at 2.74m (9ft) height

Short Range Model

The many overlapping discrete areas of occupancy detection detect small motions over a smaller area, 4.26m (14ft). The short range sensor is best used for spaces such as cubicles, conference rooms, and other spaces where people may be present for a long period of time with only subtle movements.

4.5(15) 3(10) 15(5) 0

Top profile of coverage at 3m (10ft) height

0

3(10)

5.1(16.8)   3.3(10.9)   0.94(3.1)
     4.3(14.2)   2.3(7.5)

Side view of coverage at 3m (10ft) height

Dimensions: mm (in)

Programming Port

RJ45 Ports

Ø 90 (3.54)

R33 (1.30)

10 (0.39)

63 (2.48)

31.5 (1.24)

11.450 (0.45)

Specifications ±10% except where noted, subject to change without notice.

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