IMS3PIR##M

IMS Enable DALI-2 PIR Occupancy Sensor

Product Description

The IMS3PIR##M is an adjustable high performance, DALI-2 sensor that mounts to a junction box using the included mounted ring. This sensor provides presence detection and lighting control. The sensor is equipped with movement detection (PIR) and light intensity (daylight) measurement capability giving it the ability to work in daylight harvesting applications.

Construction

- 3.85" x 1.50" (98mm x 38mm)
- Housing of ABS material
- Adjustable sensor head

Electrical

- Input Voltage: Powered via DALI bus (DALI-voltage according to IEC62386 (2014))
- Input Current: Current Consumption (Typ) - 5.5 mA
- Power Consumption - < 100 mW
- Connection 2-wire, un-Polarized

Sensing

- Motion detection through PIR technology
- PIR Sensing Beam Angle (15M Model): 34.5 Degrees
- PIR Sensing Beam Angle (30M Model): 43 Degrees Horizontal x 22 Degrees Vertical
- PIR Coverage (15M Model): 16.4 to 39.3 ft. height, up to 54.5 ft. diameter.
- PIR Coverage (30M Model): 49.2 ft. height, 41.3 ft. x 101.7 ft.
- Photocell range 0-2046lux, 1lux resolution
- Power failure memory: Device shall incorporate non-volatile memory. Settings and parameters saved in protected memory shall not be lost should power be interrupted and subsequently restored. Programming is stored in each sensor in addition to the Area Controller.
- Sensor reports the following data to the area controller: Occupancy status and Ambient light level
- LED indicators: LED indicators always provide a visual means to verify that motion is being detected during both testing and normal operation.
- Sensors have remotely adjustable settings for dimming levels, occupied/unoccupied light levels, occupancy/vacancy sensing.
- Sensors may remotely adjust the light output to reduced levels and remain at that reduced level for an adjustable period before turning off when the space is unoccupied.

Environmental

- Operating Temp 15M & 30M: -4°F to 131°F (-20°C to 55°C)
- Relative Humidity 15-90% non-condensing
- IP40 Rated
- For indoor use only

Mounting and installation

- Requires 4" x 4" junction box and cover plate (not supplied)
- Provided with spring terminal connector for connection to DALI bus
- Terminals handle 20-16 AWG wire
- Wire strip length 0.33-0.37 in. (8.5-9.5mm)
- Do not install with power applied to device

Listings

- RoHS Compliant
- DALI Alliance certified
- Complies with EN61547 and EN55015 for EMC
- Complies with EN61347-2-11 and EN61347-1 for Safety

Warranty

- 5-year limited system warranty
- Warranty does not cover product failure due to an over-voltage event (power surge)

Project

Catalog

Type

Date



IMS3PIR##M

DALI-2 PIR Motion Sensor

15m & 30m Heights

NICOR, LLC. 2200 Midtown Place NE, Albuquerque, NM 87107 P: 800.821.6283 F: 800.892.8393
www.nicorlighting.com

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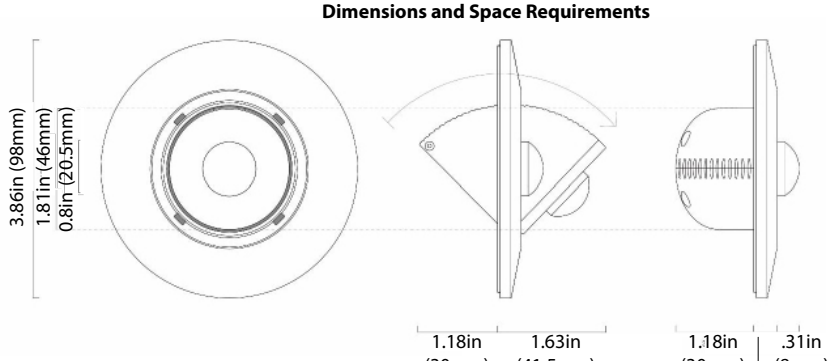
IMS Enable DALI-2 PIR Occupancy Sensor

Ordering Information

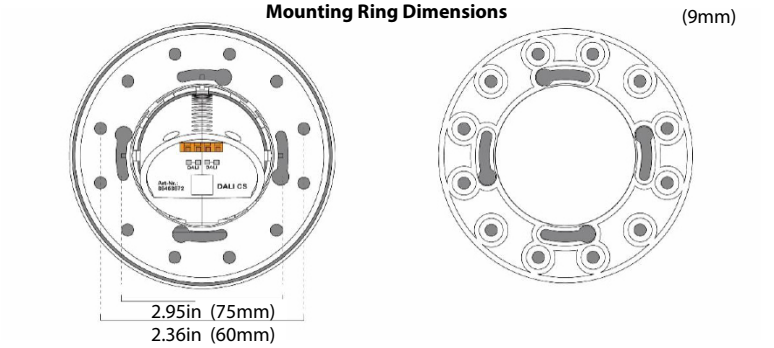
Series	Mounting Height
IMS3PIR	☐ 15M
	☐ 30M

Dimensions

Dimensions and Space Requirements



Mounting Ring Dimensions



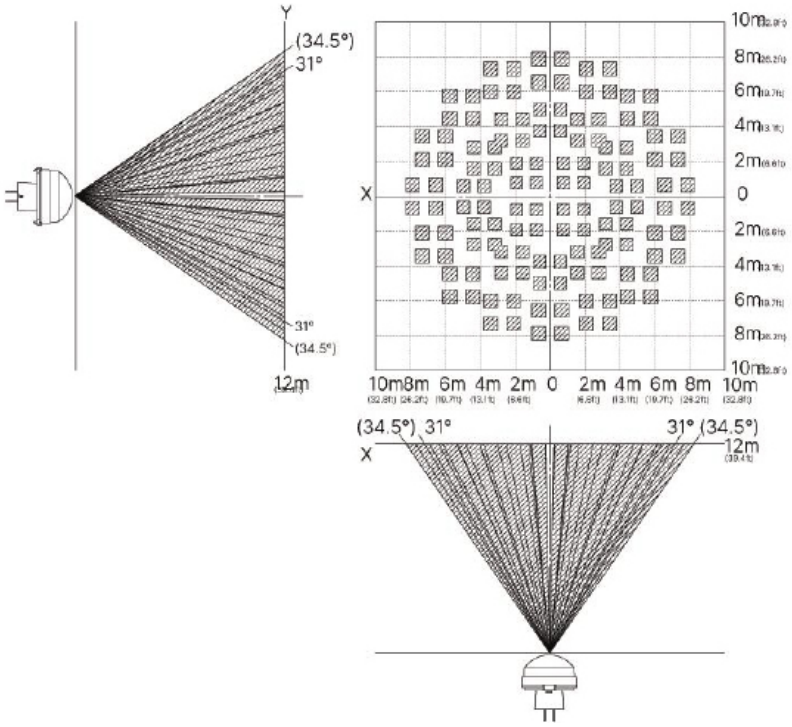
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Detection Patten

Detection Pattern - 15M

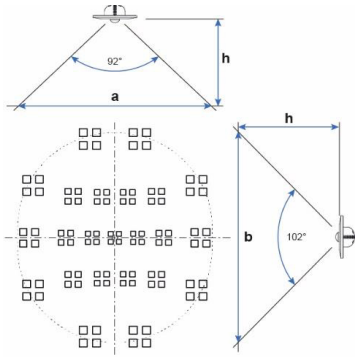


Presence Detection 15M

The sensor type „-15" is suitable for high rooms (e.g. halls) with mounting height up to 12m. The detection range is about 15m.

Table 2 CS-hall (15): relation of mounting height and detection area

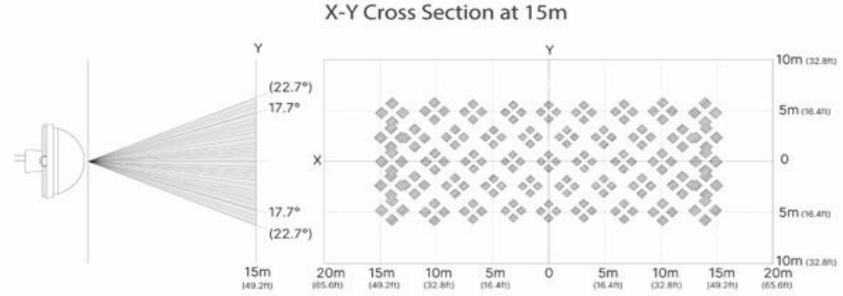
h [m]	a [m]	b [m]	A [m2]
5,0	6,9	6,9	37,1
7,5	10,3	10,3	83,5
10,0	13,7	13,7	148,4
12,0	16,5	16,5	213,7

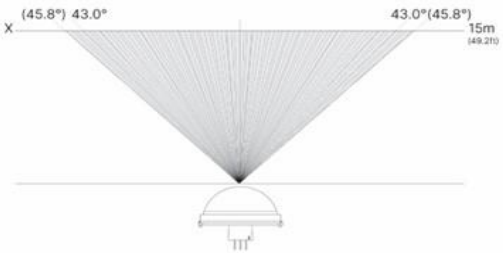


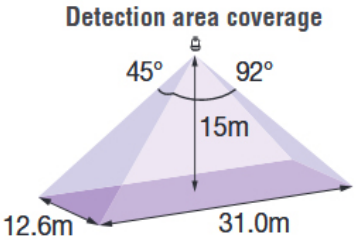
Detection Pattern - 30M

Presence Detection 30M

The type - 30 has an ultra wide and long distance detection type and is suitable for application in high bay aisles. The maximun mounting height is about 15m. For this installation height of 15m it gains a field of view of approx. 30m x 12m, with 188 detection zones which minimuze blind spots.







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