

Hi-Bay PIR Occupancy Sensor



*The Key to Lighting
Comfort and Energy Savings*

HB-1316 is a high bay motion sensor with SUREN's proprietary 8-element pyros and multi-segment lens array.

Mounted at a height of 12m, this sensor detects people moving within 16m diameter of a full circular coverage area.

HB-1316 can be surface mounted or flush mounted for an attractive, un-obstructive appearance.

The sensor is fitted with a high-capacity relay that is capable of driving a wide range of load types, including lighting or HVAC devices.

Infra Red Motion Detection

- 360 degree coverage
- Detection range 16m diameter
- **HDIR™** – High Definition IR
- Proprietary 8-element pyros
- 152 optical view patterns
- Each cluster of 8-segment pattern captures very fine body movement
- Patented technology
- Alternating polarity for stronger signals
- Multi-level segmented lens for better detection

Controls

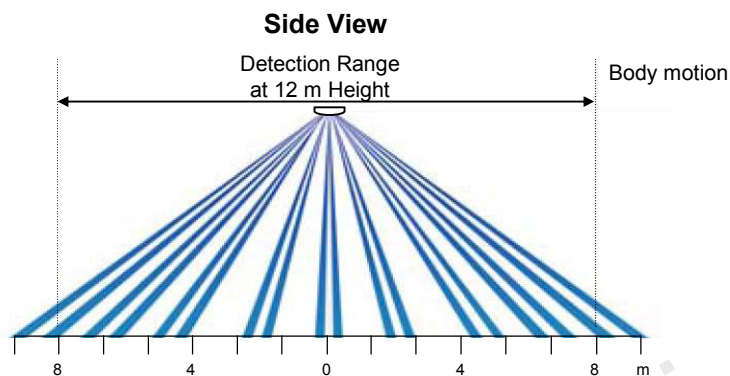
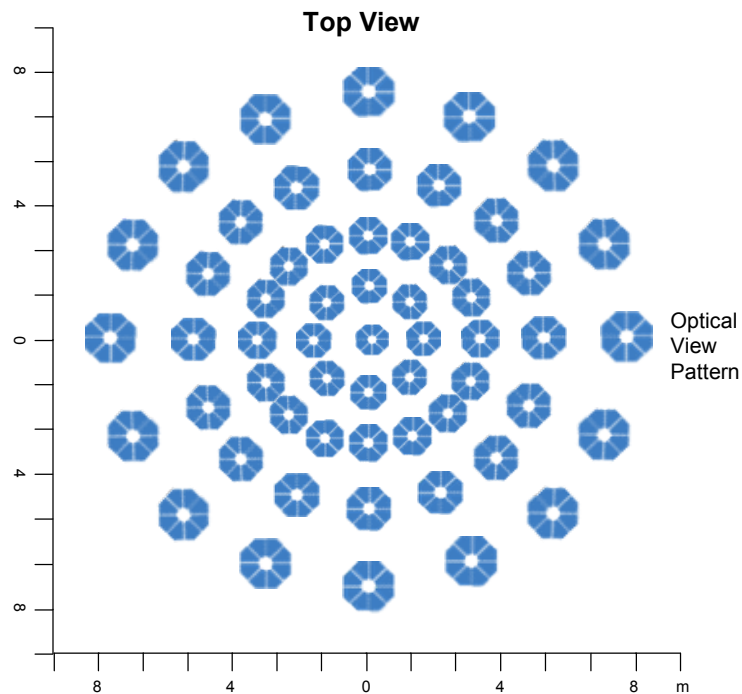
- Delayed-Off timer (30 sec – 30 min)
- Ambient light threshold (20 – 320 Lux)
- Infra red range
- Sunset sensor override
- Normal occupancy / walk-thru mode
- Test mode. Automatic reset to normal operation after 15 minutes
- LED indicators

Accessories


- Brackets, screws and wall plugs for surface mount in solid ceiling
- Spring clips for flush mount in drop ceiling
- Infra red zone mask

Smart Features

- **Sunset Sensor** (Photocell) that enables lighting only when ambient light is low
- **Detection Sequence Logic (DSL)** that uses intelligent processing to turn light on when major motion is detected and to keep the light on with relatively smaller motion
- Automatically adapts to different occupancy patterns including normal occupancy and walk-thru modes
- In normal occupancy mode, light is turned off after some delay after the last person leaves the area
- In walk-thru mode, light is turned off shortly after person leaves the area



Specifications

Supply Voltage	85 – 277 V AC	Power Consumption	1.87 W	
Output Voltage	85 – 277 V AC	Output Current	5 A	
PIR Detection Range	16 m diameter mounted at 12 m height			
Operating Temperature Range	-40° C to 55° C			
Recommended Mounting Height	Up to 12 m			
Housing	High Impact ABS			
Dimension	Overall Height	56 mm	Diameter	110 mm
Approvals	CE 			
Patents	US Patent 7,579,595 & 8,314,390 (Additional patents pending worldwide)			
Optical View Pattern	Long Range	Mid Range	Short Range	
	96	48	8	

All specifications are subject to change without notice.