Holders ANALYTICS

PIR Plus - Recessed

From Lighting Controls to understanding Space Utilisation

The HTDA PIR Plus recessed sensor, using Casambi and Sentistic cutting-edge technology, enables any physical environment to have industry-leading lighting controls and anonymous people counting and heatmapping capabilities.

Features and Benefits

Unparalleled Presence Detection	No linger time and False triggering with proprietary Sentistic Edge-AI technology.
Casambi Ecosystem	The PIR Plus supports Casambi, enabling the integration with a wide variety of Casambi Ecosystem applications and products.
Wide light Detection range	0 – 10,000 lux
Sentistic Technology	Sentistic Edge-AI technology allows for people counting and precise heat mapping, in an anonymous way.
GDPR Proof	No PII (Personally Identifiable Information) is measured. Only IR data is measured based on PIR (Passive Infrared) Technology – Privacy by Design.
Stand-alone	The smart motion sensor functions as a one-on-one replacement for standard motion sensors.
Future Proof	Feature expansions are made possible through software-based upgrades (requires an internet connection).
Holders Technology Data Analytics	The HTDA PIR Plus sensors allow for the expansion of data collection, export, and analytics of valuable insights through the Holders Data Analytics Platform, under the Occupancy and Occupancy Plus Data Application. *Requires a Casambi Gateway and/or a connection to the internet (Wi-Fi).

Electrical Characteristics

Input Voltage range AC	220 – 240 VAC 50/60 Hz
Internal Consumption	<2 W

Operating Temperature

Temperature	-10 – 40 °C

Mechanical Characteristics

Dimensions built-in	Ø61 x 69mm
Outer diameter	Ø80mm
Hole in ceiling	Ø63mm
IP Value	IP-20

Outline Drawing

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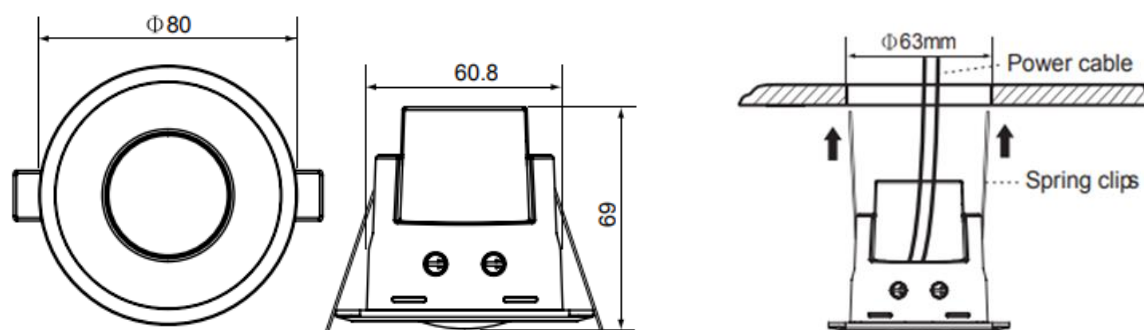
Rectangular Sensor Detection (People Counting and Tracking)

Single Sensor
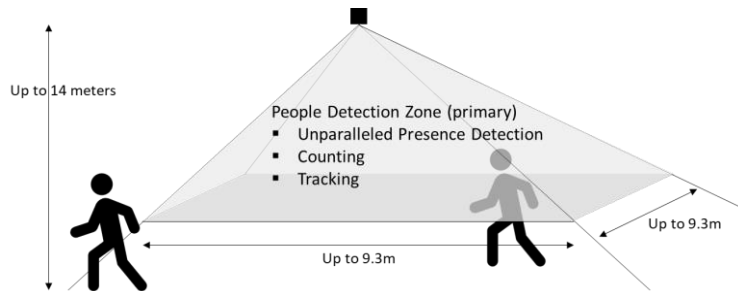
Open Space plan
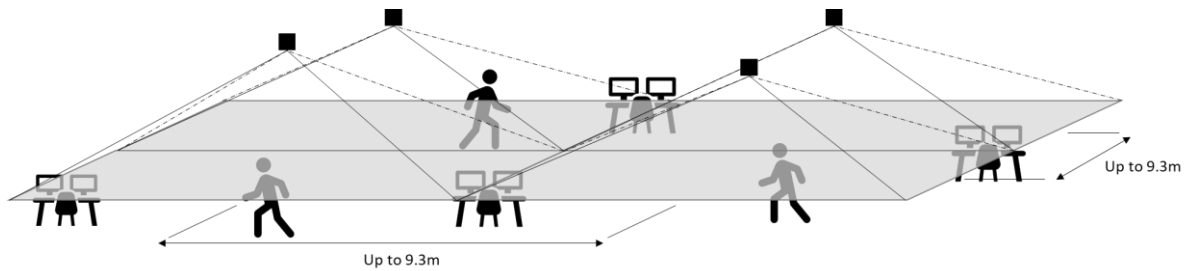
Wide Angle		
Installation Height (m)	Range (m)	Area (m2)
2,20	2,7	7,0
2,50	3,6	12,9
2,70	4,2	17,7
3,00	5,1	26,5
3,20	5,8	33,3
3,50	6,7	44,9
4,00	8,3	68,3

Medium Angle		
Installation Height (m)	Range (m)	Area (m2)
3,50	3,9	15,0
3,70	4,2	17,9
4,00	4,8	22,8
4,20	5,1	26,3
4,50	5,7	32,1
5,00	6,6	43,2
6,00	8,4	70,1
6,50	9,3	85,9

Narrow Angle (Q1 '25)		
Installation Height (m)	Range (m)	Area (m2)
7,00	3,7	13,7
9,00	5,0	25,1
10,00	5,7	32,1
12,00	7,0	48,7
14,00	8,3	68,7

Part Number Designation and Ordering Information

| Power	Max. Installation Height	Data Connectivity	Controls
A: AC	W: 4.0 meters M: 6.5 meters N:14 meters (Q1 '25)	W: Wi-Fi* *Wi-Fi is only needed for advanced data analytics solutions. Please contact Holders Technology for more information.	CAS: Casambi
HTDA PIR Plus vRecessed-AWW-CAS		The recessed PIR Plus is AC-powered, wide-angle, and Casambi-enabled Motion Sensor.	

Certifications and Testing

CE UKCA RoHS

Wiring Diagram
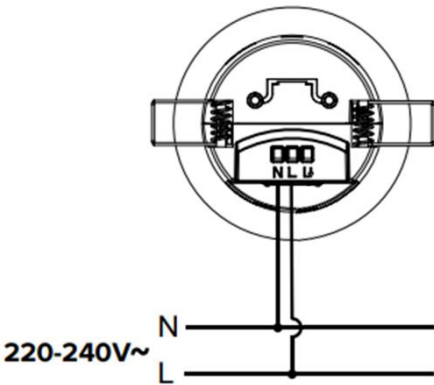
Data Insights Examples

People counting	Understand how many people are utilising space (e.g. sitting or standing under the sensor)
Counting of crossings	The number of people crossing the sensor, and the direction of crossing, can be determined to understand how much spaces are being used (i.e. door counter)
Visit duration	Understand the duration of people utilizing an area.
Heatmapping	Understand walking routes and hot & cold occupancy spots with one or multiple sensors setup.
Under-utilisation of spaces	Understand the skewed utilisation of occupied spaces (i.e. how many seats are left empty in an occupied meeting room)

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Example Data Analytics Insights (People Counting & Heatmapping)