



■ Features

- Long range PIR sensor
- IP66 UV resistant enclosure
- Includes an 0-10V control output
- Wide input voltage range 100-277Vac
- Convenient size and easy mounting
- Several Casambi profiles available

■ Applications

- Shopping malls
- Warehouses
- Area lighting
- Industrial environments
- Sport facilities

■ Description

CBU-SENS-HB-010_17M.60x60 is a presence and light sensor with integrated Casambi CBM-003 BLE communication module. This Casambi Ready sensor is compatible with Casambi native and Casambi Ready products and must be linked to a Casambi net in order to function. It is compatible with Casambi BLE4 and also with BLE5 Evolution long range net types.

Use of a high sensitivity PIR and specific lens make it suitable for up to 12m mounting height applications (17m height applications are also possible when contrast between moving objects and background is $>4^{\circ}\text{C}$).

Linger time and fade time of the presence sensor can be adjusted by use of Casambi free APP (available on Google play and Apple App store). Sensitivity, tolerance/threshold and calibration of the light sensor can also be set with the App.

In addition to presence and luminance sensors, CBU-SENS-HB-010_17M.60x60 incorporates a 0-10V driver controller. This additional function will be enabled when any of the -010 profiles is selected. Presence and light sensor functions appear in the sensors section of the Casambi App; 0-10V controller will show in the luminaires section.

■ Available profiles and description

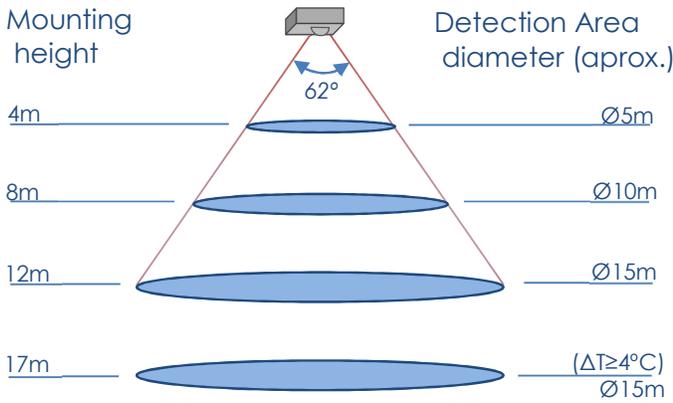
CAS-SENS PS-LS-TP-010Lin	Presence & Light Sensor, 0-10V controller with linear dimming curve. (Default profile)
CAS-SENS PS-LS-TP-010Log	Presence & Light Sensor, 0-10V controller with logarithmic dimming curve.
CAS-SENS PS-LS	Presence & Light Sensor (without 0-10V controller function).
CAS-SENS PS-LS (NoLED)	Presence & Light Sensor (without 0-10V controller). Presence detection LED OFF

Other profiles available under request.

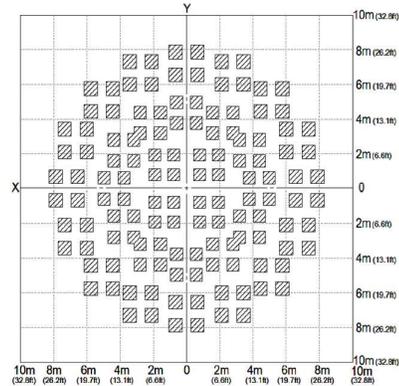
■ Technical data

Type	CBU-SENS-HB-010 17M.60x60	
Line input	Line voltage	100 - 277Vac (±10%. 85-305Vac)
	Line frequency	47 – 63Hz
	Maximum line current	<25mA@230Vac <40mA@115Vac
	Power consumption. Max.	<1W@230Vac
	Standby power consumption	<0,8W@230Vac
0-10V output	Isolated from line input	Yes
	0-10V Current	5mA max. Sinking or Sourcing.
	Dimming range	0-100% (0-10V)
PIR	Type	Digital output. High sensitivity.
	Detection range	17m@4°C difference. 12m@2°C difference.
	Detection angle	62°x62° (±31° Horizontal, ±31° Vertical)
	Detection zones	128
Photocell	Type	Human eye response adapted phototransistor.
	Luminance range	50 - 1500 lx
Protections	Over temperature	Resettable by Casambi App or mains disconnection
	Line overvoltage/Catastrophic failure	Built in non-replaceable line input fuse
	Enclosure isolation	Class II
	Ingress protection degree	IP66
Environmental	Operation ambient temperature	-20°C to +60°C
	Storage temperature	-20°C to +70°C
	Operation humidity	< 70% RH without condensation
RF Communication	Type	Casambi Bluetooth 4.0 & 5.0 Low energy (BLE)
	Operating frequencies	2402–2483 MHz
	Mesh type	Self-healing and self-organizing, frequency-hopping, spread spectrum mesh technology.
	Maximum output power	+7 dBm
	Wireless class	Class 2
	Data security	AES128 bit encryption + elliptical cryptography
Other	Firmware updates	OTA (Over the air).
	Time/date updates	Internal counter. Updatable from APP or by use of external timer after mains blackout.
	Temperature monitoring	Internal temperature is displayed in Casambi App for -010 profiles.
Mechanical	Weight	150 g
	Dimensions (Length x width x height)	95 x 50 x 55 mm (cable gland included)
	Fixing points	2 holes at opposite corners. Distances 53 x 38mm
	Enclosure Material	Polycarbonate UL 94-V2. UV resistant UL 508
	Colour	RAL 7035 (light grey) base and transparent cover
Connections	Wire section	Max. 2,5mm ² (Solid or stranded)
	Wire peeling length	6-8mm
	Connector screw fastening torque	0,4Nm
	Insulated cable diameter	6-12mm
Directives	(LVD) 2014/35/UE, (EMC) 2014/30/UE, (RED) 2014/53/UE, (RoHS) 2011/65/UE, (REACH) 1907/2006.	

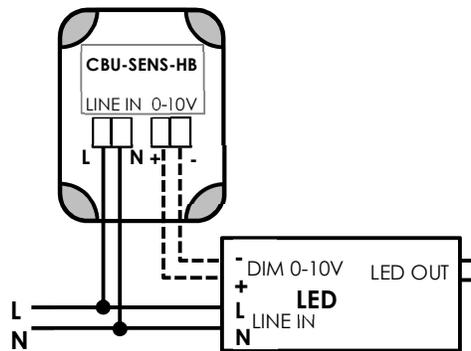
▪ **Detection area**



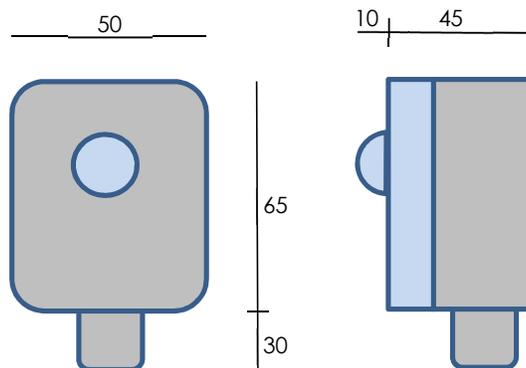
Detection zones distribution on the ground (@12m mounting height)



▪ **Wiring Diagram**



▪ **Dimensions (mm)**



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