Detached Motion Sensor with Bluetooth® Mesh

HCD038/CA

Casambi Enabled

HYTRONIK®

Product Description

HCD038/CA can work with a wide range of microwave and PIR sensor heads. It is ideal for plastic luminaires as compared to metal luminaires because Bluetooth signal can transmit through plastic. It is suitable for any typical indoor applications such as office, classroom, car park, warehouse and other commercial/industrial areas.HCD038/CA works with CBU-ASD module for either 1-10V or DALI output. Meanwhile, all commissioning and settings can be done via **CASAMBI** app.

Hardware Features

- 1 push input for flexible manual control
- Detached linear design to suit luminaires with limited space inside
- Use Casambi app for commissioning
- Device firmware update over-the-air
- 5-year warranty

Free smartphone App for set-up and commissioning

Download on the App Store

GET IT ON Google Play

Technical Specifications

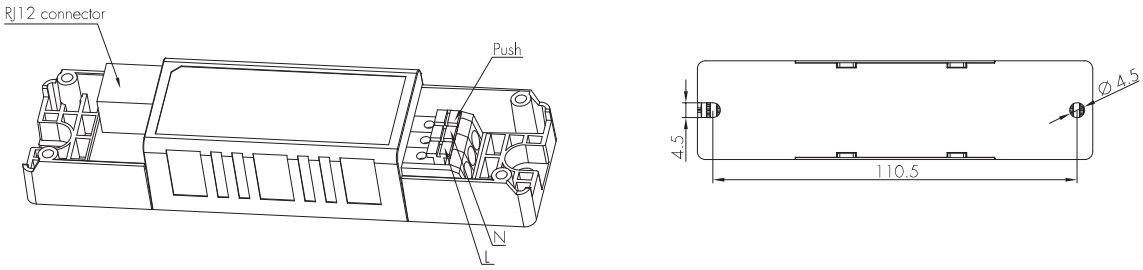
Bluetooth Transceiver	
Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	Max 4dBm
Range (Typical)	10~30m

Input Characteristics	
Mains voltage	HCD038/CA: 220~240VAC 50/60Hz
Stand-by power	<0.5W
Warming-up	20s

Environment	
Operation temperature	Ta: -20°C ~ +55°C
Case temperature (Max.)	Tc: +75°C
IP rating	IP20

Mechanical Structure & Dimensions

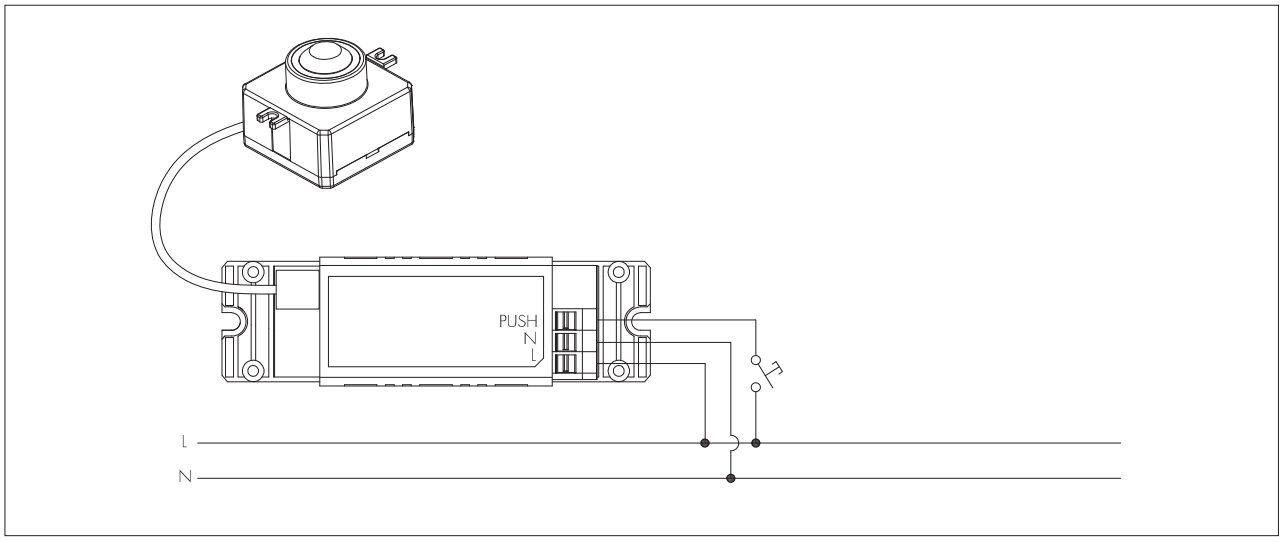
HCD038/CA



Wire Preparation

To make or release the wire from the terminal, use a screwdriver to push down the button.

Wiring Diagram



Technical Specifications for Sensor Heads

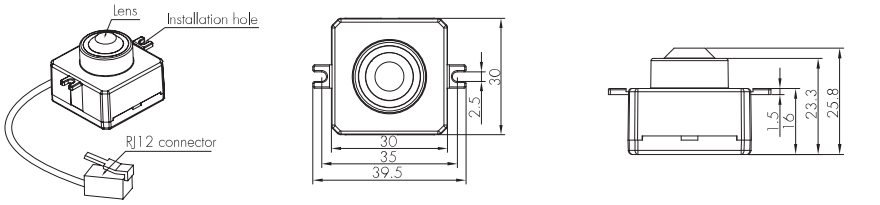
PIR Sensor Properties	
Sensor principle	PIR detection
Operation voltage	5VDC
Detection range *	HIR05 / HIR07 (Ø x H) : 6m x 3m HIR11 (Ø x H) : 16m x 12m HIR12 (L x W x H) : 18m x 6m x 15m

HF Sensor Properties	
Sensor principle	High Frequency (microwave)
Operation voltage	5VDC
Operation frequency	5.8GHz +/- 75MHz
Transmission power	<0.2mW
Detection range *	SAM20 / SAM21 / SAM22 (Ø x H) : 12m x 3m SAM23 (Ø x H) : 16m x 12m

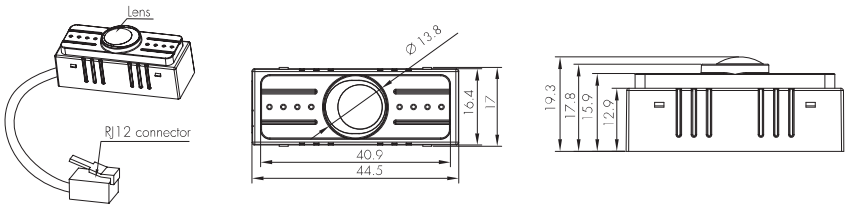
* The detection range is heavily influenced by sensor placement (angle) and different walking paces. It may be reduced under certain conditions.

The range of PIR and microwave sensor heads below offers powerful number of Plug 'n Play feature options to expand the flexibility of luminaires design. This approach to luminaire design reduces space requirements and component costs whilst simplifying production.

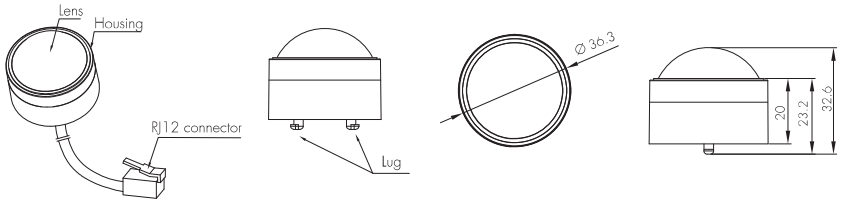
A. HIR05
PIR sensor head
The cable length is around 65cm.



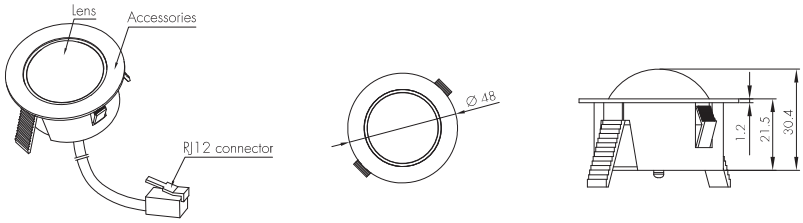
B. HIR07
PIR sensor head
Photocell Advance™
The cable length is around 30cm.



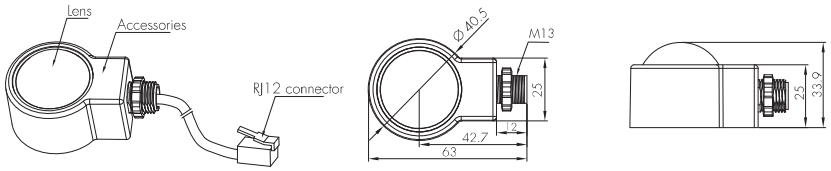
C. HIR11/S
PIR sensor head
Surface mounting
For highbay application
Lens part IP42 (IP64 can be made upon request)
The cable length is around 65cm.



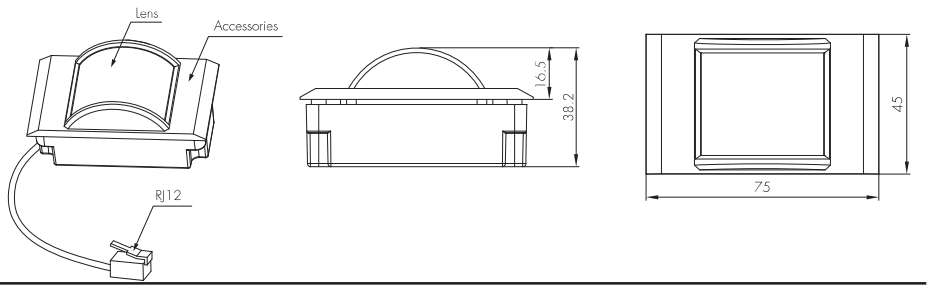
D. HIR11/F
PIR sensor head
Flush mounting
For highbay application
Lens part IP42 (IP64 can be made upon request)
The cable length is around 65cm.



E. HIR11/C
PIR sensor head
Screw to the luminaire by conduit
For highbay application
Lens part IP42 (IP64 can be made upon request)
The cable length is around 65cm.



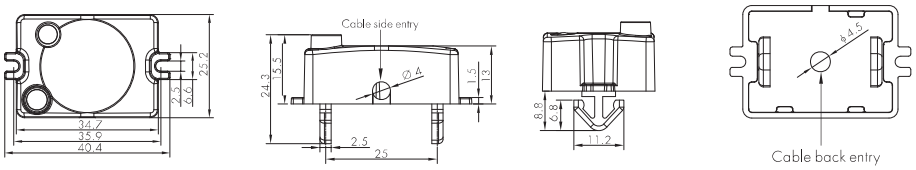
F. HIR12
PIR sensor head
For highbay application
IP65(lens part)
The cable length is around 65cm.



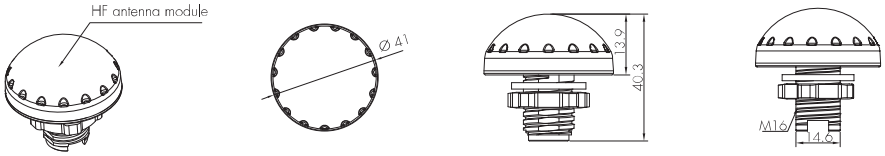
Installation for HIR12

We suggest that the metal plate thickness to be 0.8mm~1.6mm to ensure perfect focal length for the PIR lens.

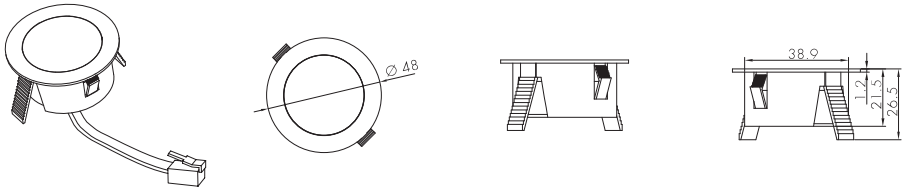
H. SAM20
HF sensor head
Photocell Advance™
The cable length is around 30cm.



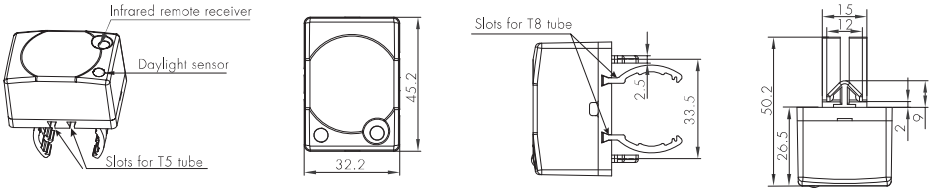
I. SAM21
HF sensor head
Photocell Advance™
IP65
The cable length is around 65cm.



J. SAM22
HF sensor head
Flush mount
The cable length is around 65cm.

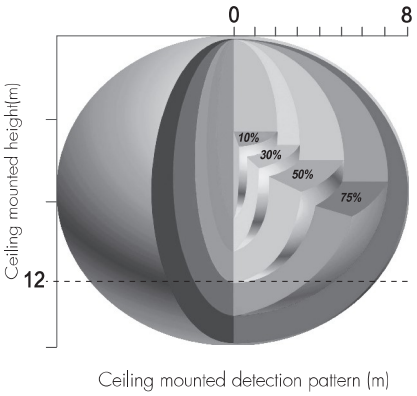


K. SAM23
HF sensor head
Photocell advance™
For highbay application
The cable length is around 30cm.

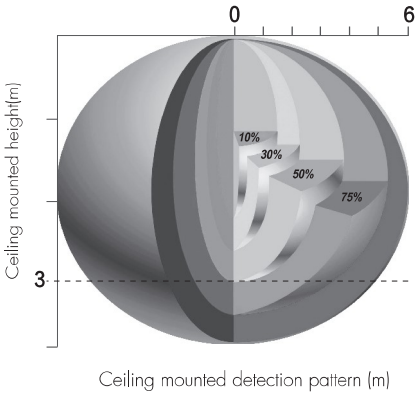


Detection Pattern

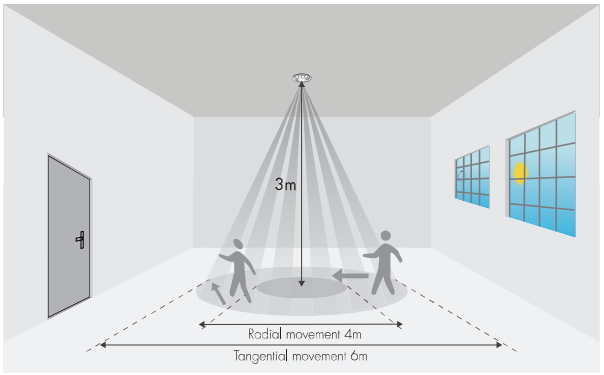
SAM23



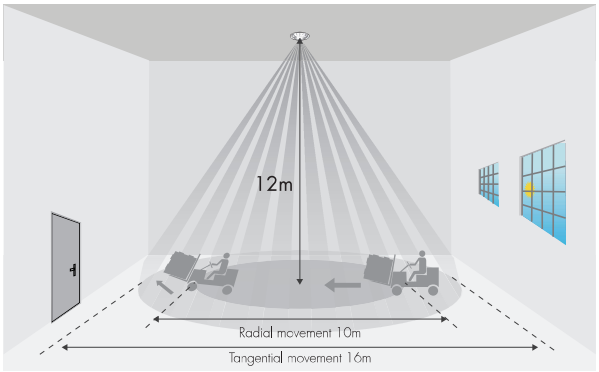
SAM20 / SAM21 / SAM22



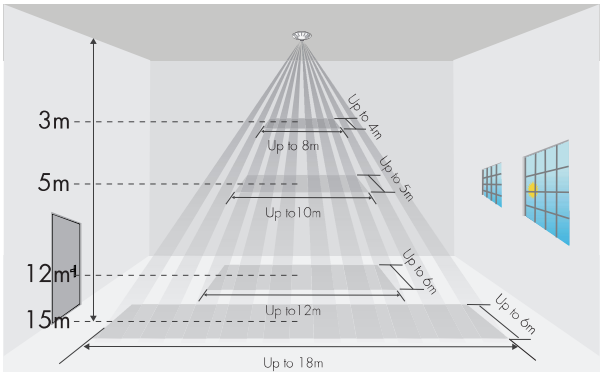
HIR05 / HIR07



HIR11



HIR12



Additional Information / Documents

1. Data sheet is subject to change without notice. Please always refer to the most recent release on www.hytronik.com/products/bluetooth technology ->Partnership

3. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download/knowledge ->Hytronik Standard Guarantee Policy