


PIR Standalone Motion Sensor with  Bluetooth® Mesh

**HBIR30/CA**

Casambi Enabled

**HYTRONIK**®











CB CE IP20 

## Product Description

HBIR30/CA is a Bluetooth PIR standalone motion sensor. It is ideal for typical indoor applications such as office, classroom, healthcare and other commercial areas. HBIR30/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
-  Surface mount kit available as accessory
-  Two types of PIR lens and blinds
-  User-friendly design for installation
-  Use Casambi app for commissioning
-  High bay version available (up to 20m in height)
-  Device firmware update over-the-air
-  5-year warranty

Free smartphone App for set-up and commissioning



## Technical Specifications

### Input & Output Characteristics

Mains voltage	220~240VAC 50/60Hz
Stand-by power	<0.2W
Warming-up	20s

### Sensor Data

Sensor principle	PIR detection
Detection range	( $\varnothing$ x H) 12m x 3m (max)
Detection angle	360°
Mounting height	3m

### Bluetooth Transceiver

Operation frequency	2.4 GHz - 2.483 GHz
Transmission power	Max 4 dBm
Range (Typical indoor)	10~30m
Protocol	 Bluetooth® 4.0

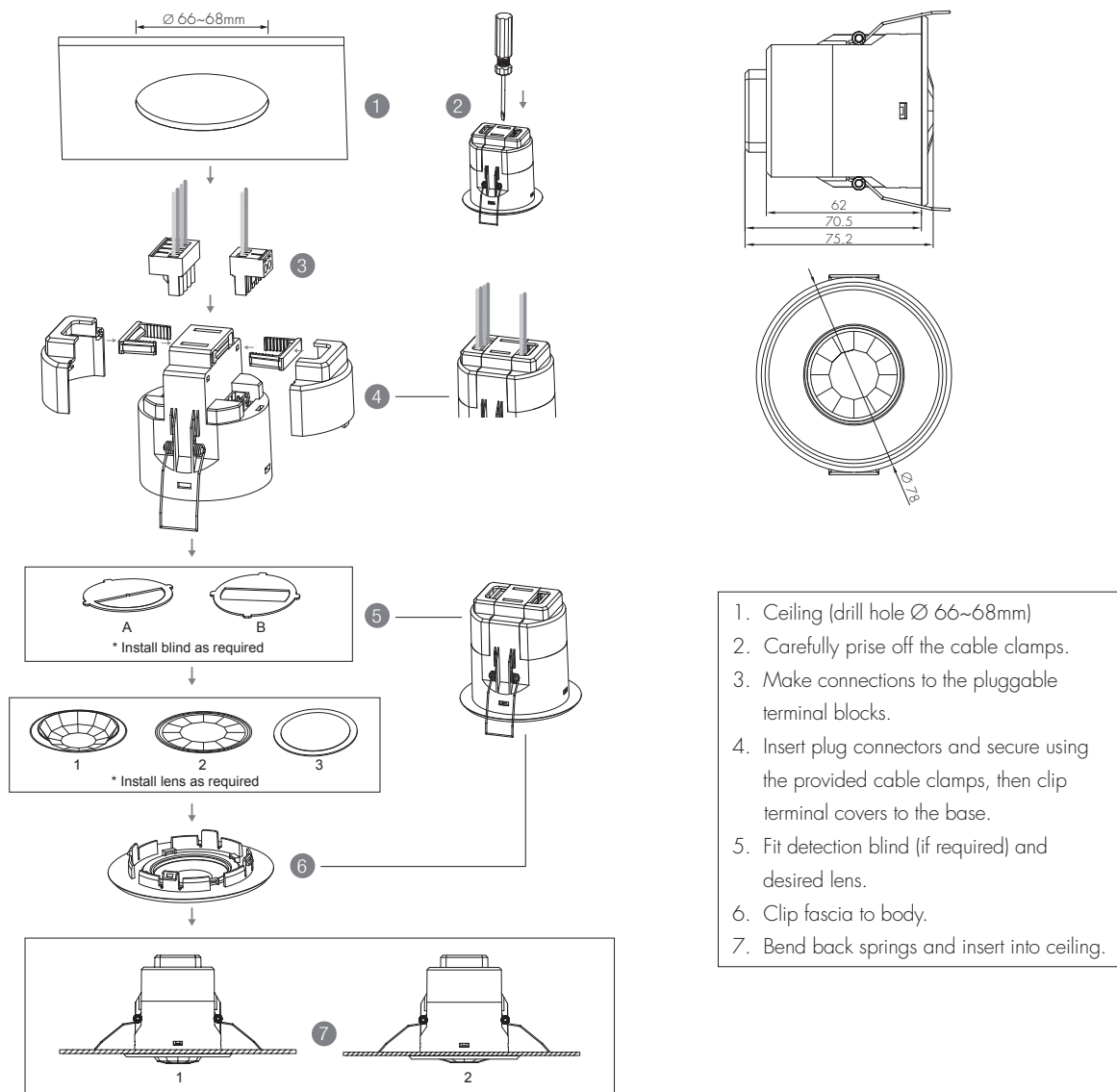
### Safety & EMC

EMC standard (EMC)	EN55015, EN61000, EN61547
Safety standard (LVD)	EN60669-1, EN60669-2-1
Certification	CB, CE, EMC, LVD, RCM
RED	EN300328, EN301489-1, EN301489-17

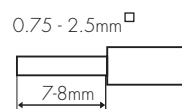
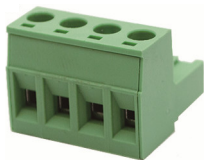
### Environment

Operation temperature	Ta: -20°C ~ +50°C
IP rating	IP20

## Mechanical Structure & Dimensions

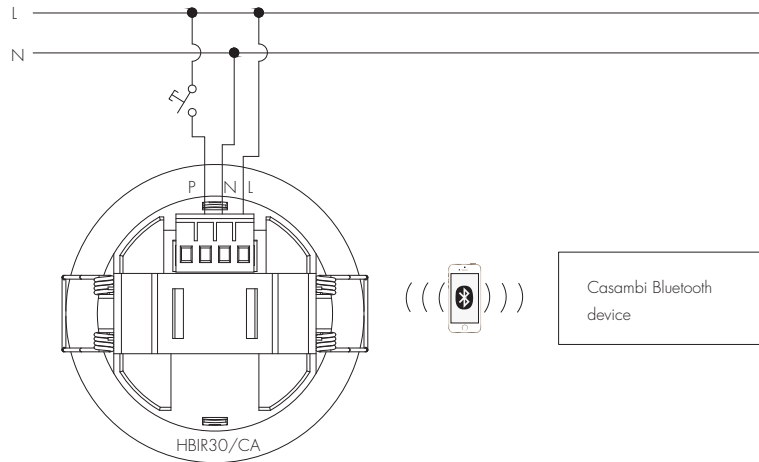


## Wire Preparation

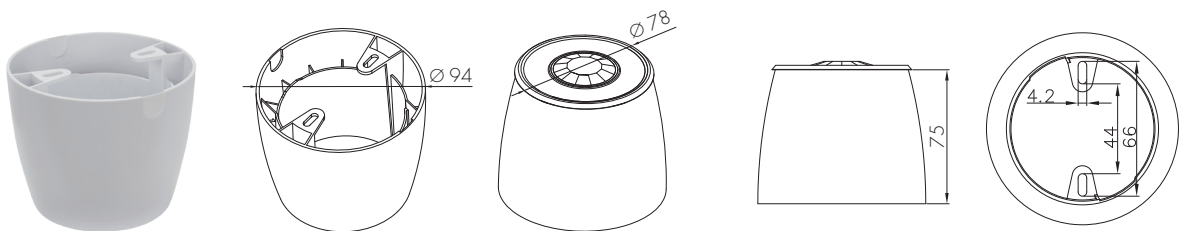


Pluggable screw terminal. It is recommended to make connections to the terminal before fitting to the sensor.

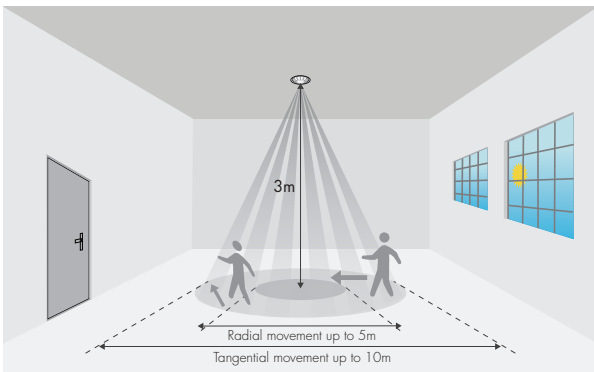
# Wiring Diagram



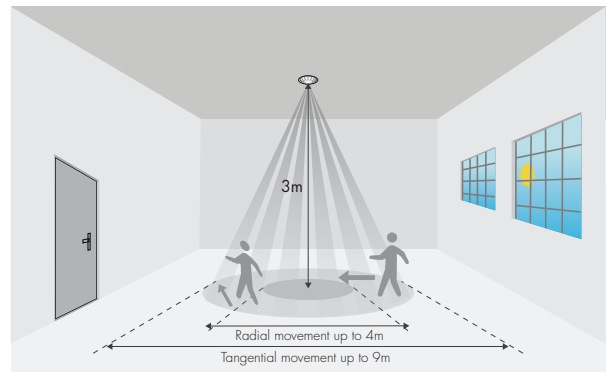
## Optional Accessory – Ceiling/Surface Mount Box: HA03



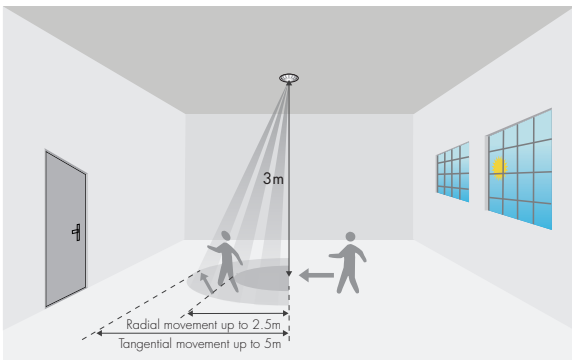
## Detection Pattern




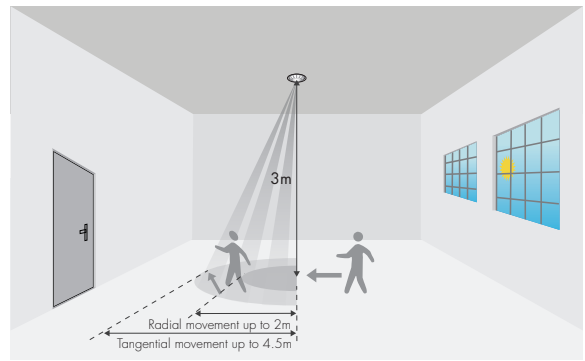
Convex Lens 



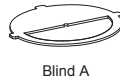
Flat Lens 



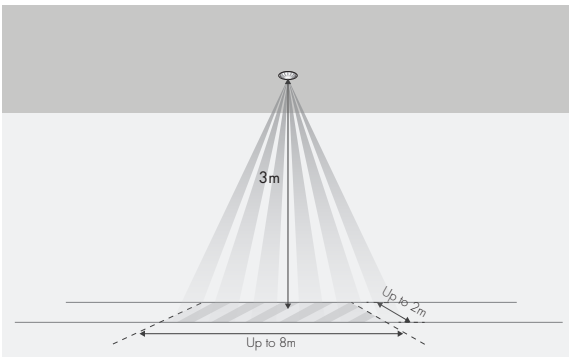
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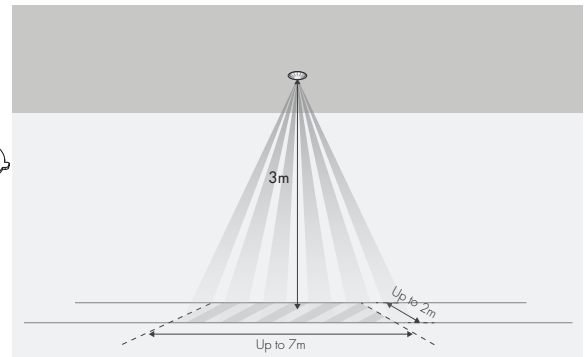
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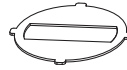
Blind A



Convex Lens 

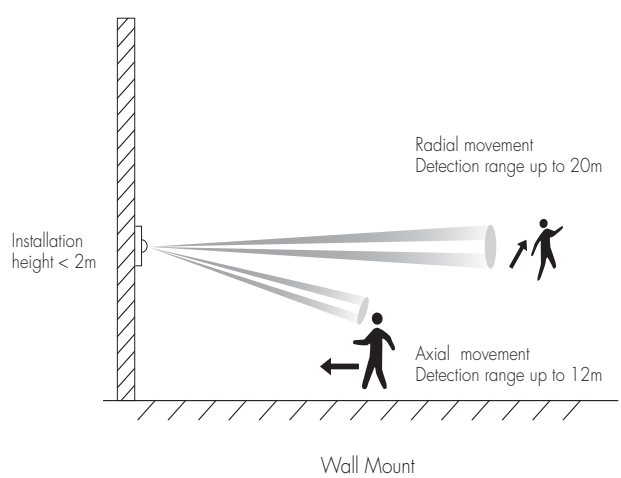
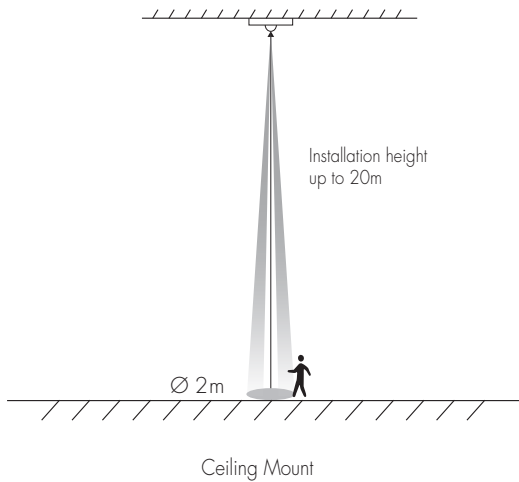


Flat Lens 



Blind B

### High Bay Version HBIR30/CA/H



## Additional Information / Documents

1. To learn more about detailed product features/functions, please refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->Introduction of App Scenes and Product Functions
2. Regarding precautions for PIR Sensors installation and operation, please kindly refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->PIR Sensors - Precautions for Product Installation and Operation
3. Data sheet is subject to change without notice. Please always refer to the most recent release on [www.hytronik.com/products/bluetooth technology](http://www.hytronik.com/products/bluetooth%20technology) ->Partnership
4. Regarding Hytronik standard guarantee policy, please refer to [www.hytronik.com/download](http://www.hytronik.com/download) ->knowledge ->Hytronik Standard Guarantee Policy