Detached Motion Sensor with **Bluetooth**[®] Mesh

HCD038/CA Casambi Enabled



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.



Free smartphone App for set-up and commissioning

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



Technical Specifications

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

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

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

Mechanical Structure & Dimensions HCD038/CA



Wire Preparation





Wiring Diagram





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



Technical Specifications for Sensor Heads

PIR Sensor Properties				
Sensor principle	PIR detection			
Operating voltage	5VDC			
Detection range *	HIRO5 / HIRO7 Max installation height: Max detection range: 6 HIR11 Max installation height: Max detection range: HIR12 Max installation height: Max detection range:	om (diameter) 15m (forklift) 12m (single person)		

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 Max installation height: 3m			
	Max detection range: 12m (diameter) SAM23			
	Max installation height:	15m (forklift)		
		12m (single person)		
	Max detection range:	20m (diameter)		

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

PIR & microwave sensor heads

The range of PIR and microwave sensor heads below with Bluetooth modules built in 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.





Subject to change without notice.



HIRO5 / HIRO7



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 5.0 SIG mesh system ->Partnership
- 2. Regarding Hytronik standard guarantee policy, please refer to www.hytronik.com/download ->knowledge ->Hytronik Standard Guarantee Policy