Detached Motion Sensor with INGY

HC038V/BT/IG HCD038/BT/IG

0/1-10V Output DALI Output



Product Description

HC038V/BT/IG is a INGY 0/1-10V control base whereas HCD038/BT/IG is a INGY DALI control base with 30mA DALI power supply built in. They work with a wide range of microwave and PIR sensor heads. They are ideal for plastic luminaires as compared to metal luminaires because INGY signal can transmit through plastic. They are suitable for any typical indoor applications such as office, classroom, car park, warehouse and other commercial/industrial areas. With INGY wireless mesh networking, it makes communication much easier without any hardwiring, which eventually adds values to luminaires and saves costs for projects.

App Features



- Two levels: room & group
- Sychronization control
- scene options to set up:
 - Generic Scenes
 - Lux ON/OFF Scenes
 - Tri-level control
 - Daylight Harvest
- Detailed motion sensor settings
- Schedule to run scenes based on time and date
- Astro timer (sunrise and sunset)
- Meighbouring function
- Commissioning without internet connection possible



Dali addressing

Unlimited network size

Unlimited group size

Emergency lighting

Gateway-less operation

AES-256 encryption

- Network sharing via QR code or keycode
- (n) Interoperability with INGY product portfolio
- Compatible with EnOcean range of wireless switches
- Device firmware update over-the-air (OTA)
- Continuous development in progress...



HC038V/BT/IG



HCD038/BT/IG

Hardware Features



- 400VA (capacitive)
- 800W (resistive)
- HCD038/BT/IG: 30mA DALI output for up to 15 LED drivers
- Plug'n'Play for flexible installation and cost saving assemble 5-year warranty







Fully support EnOcean switch EWSSB/EWSDB

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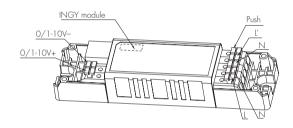
specification

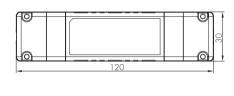
INGY Transceiver		
Operation frequency	2.4 GHz - 2.483 GHz	
Transmission power	4 dBm	
Range (Typical indoor)	10~30m	
Protocol	INGY	
Safety & EMC		
EMC standard (EMC)	EN55015, EN61000, EN61547	
Safety standard (LVD)	EN60669-1, EN60669-2-1	
RED	EN300328, EN301489-1/-17	
Cartification	Sambo CB CE EMC RED RCM	

Input & Output Characteristics		
Operating voltage	220~240VAC 50/60Hz	
Stand-by power	<1W	
Load ratings: HC038V/BT/IG HCD038/BT/IG	Capacitive: 400W; Resistive: 800W 30mA (max. 15 devices)	
Warming-up	20s	
Environment		
Operation temperature	Ta: -20°C ~ +55°C	
Case temperature (Max.)	Tc: +75°C	
IP rating	IP20	

Mechanical Structure & Dimensions

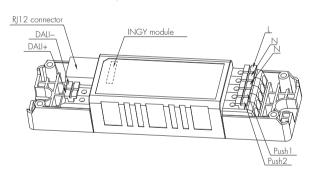
HC038V/BT/IG (0/1-10V output)







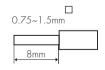
HCD038/BT/IG (DALI output)





Wire Preparation

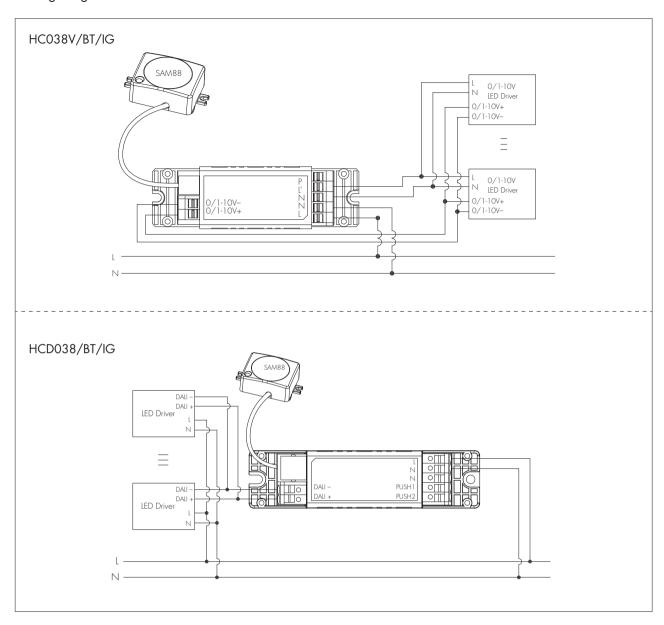




To make or release the wire from the terminal, use a screwdriver to push down the button.

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Wiring Diagram



Technical Specifications for Sensor Heads

PIR Sensor Properties		
Sensor principle	PIR detection	
Operating voltage	5VDC	
Detection range *	HIRO5 & HIRO5/FM & Max installation height: Max detection range: 6 HIR11 Max installation height: Max detection range:	3m fom (diameter) 15m (forklift) 12m (single person)
	HIR12 Max installation height: Max detection range:	15m (forklift) 12m (single person) 18m * 6m (L * W)

HF Sensor Properties		
Sensor principle	High Frequency (microwave)	
Operating voltage	5VDC	
Operation frequency	5.8GHz +/-75MHz	
Transmission power	<0.2mW	
Detection range *	SAM88 installation height: 3m detection range: 12m (diameter)	
	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.

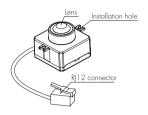
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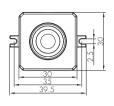
PIR & microwave sensor heads

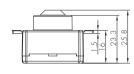
The range of PIR and microwave sensor heads below offers powerful number of Plug'n'Play feature options to expand the flexibility of luminaires design. This approach to luminaire design reduces space requirements and component costs whilst simplifying production.

A. HIRO5

PIR sensor head The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

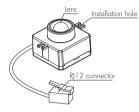


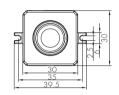


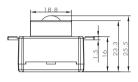


B. HIRO5/E

PIR sensor head The cable length is around 65cm. photodiode&PIR sensor integrated

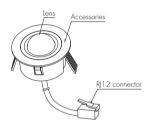




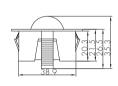


C. HIRO5/FM

PIR sensor head The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function



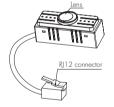


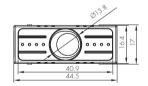


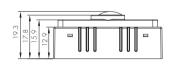


B. HIRO7

PIR sensor head Photocell Advance™ The cable length is around 30cm. photodiode&PIR sensor integrated

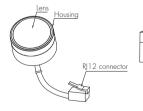


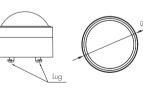


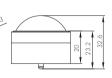


C. HIR11/S

PIR sensor head Surface mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function





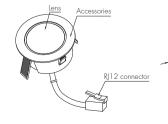


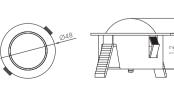


Installation hale

D. HIR11/F

PIR sensor head Flush mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

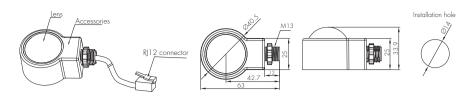






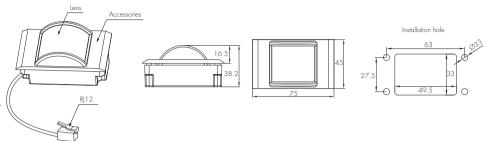
E. HIR11/C

PIR sensor head Screw to the luminaire by conduit For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function



F. HIR12

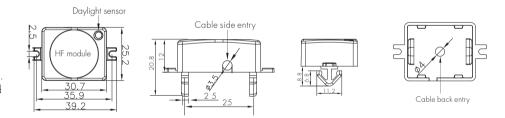
PIR sensor head For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function





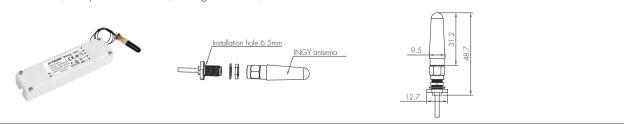
H. SAM88

Digital ouput HF sensor head The cable length is around 30cm. photodiode&HF sensor integrated



Optional Accessory: Reinforced INGY Antenna

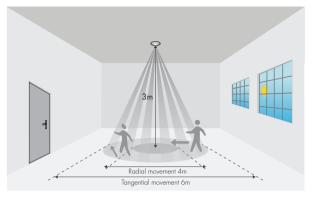
For some special applications, customers may need a larger INGY transmission for both smartphone to device and device to device. Thanks to the reinforced INGY antenna, with it being added to the control base HC038V/BT/IG & HCD038/BT/IG, the transmission distance (smartphone to device) enlarges to 20m, the distance of device to device is around 50m.



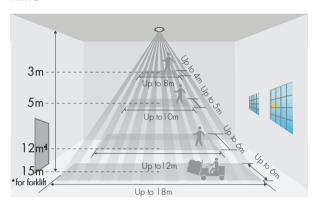
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Detection Pattern

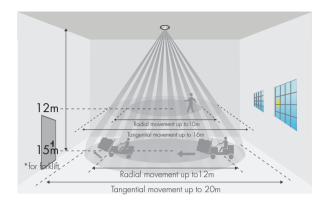
HIRO5 & HIRO5/FM & HIRO5/E & HIRO7



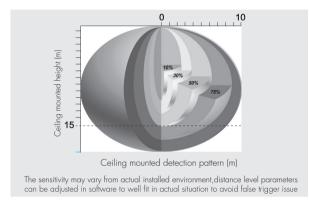
HIR12



HIR11

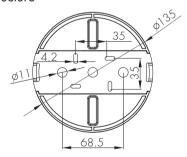


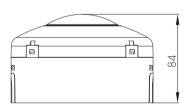
SAM88



HCD038/BT/IG and HC038VBT/IG optional with surface mount IP65 box as standalone installation

Mechanical structure





Putting the device inside the IP65 box, they are then safe and ready for independent installation. They are 2 colors of the box: transparent PC and white PC.



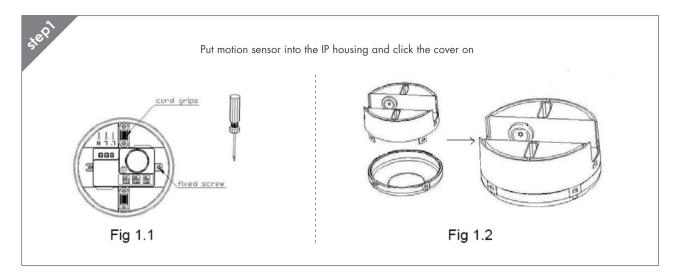


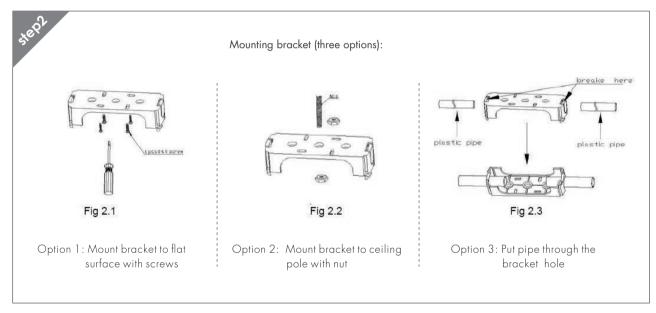


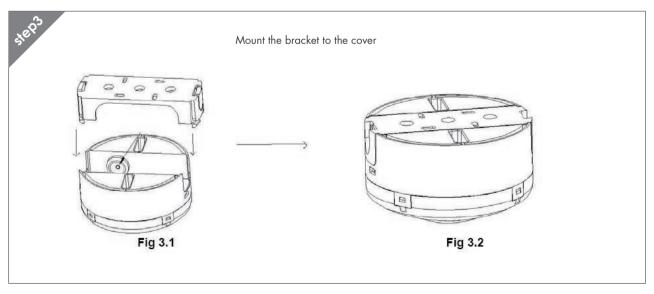
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Installation Instructions







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