Detached Motion Sensor with INGY

HC038V/BT/IG HCD038/BT/IG

Wirepas e CB C CE SELV IP20 emc

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)
- Neighbouring function
- 🔆 Commissioning without internet connection possible
- Internet-of-Things (IoT) featured:Asset tracking,indoor navigation,sensor data transmission
 - Dali addressing
 - Unlimited network size
 - Unlimited group size
 - Emergency lighting
 - Gateway-less operation
 - AES-256 encryption
- Retwork sharing via QR code or keycode
- (ຄື 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

Generation HC038V/BT/IG: 0/1-10V output :

HYTRONIK

- 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



EnOcean Self-powered IoT

Fully support EnOcean switch EWSSB/EWSDB

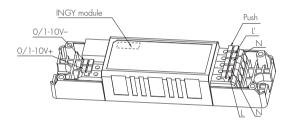
Technical Specifications (HC038V/BT/IGHCD038/BT/IG)

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	
Certification	Semko, CB, CE , EMC, RED, RCM	

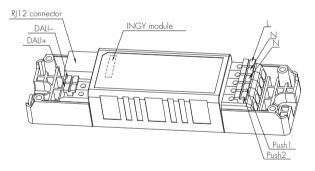
Input & Output Characteristics		
Operating voltage	220~240VAC 50/60Hz	
Stand-by power	<1W	
Load ratings: HC038V/BT/IG HCD038/BT/IG	Capacitive: 400W; Resistive: 800W 30mA (max. 15 devices)	
Warming-up	20s	
Environment		
Operation temperature	Ta: -20°C ~ +55°C	
Case temperature (Max.)	Tc: +75°C	
IP rating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

Mechanical Structure & Dimensions

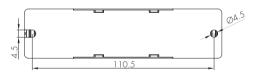
HC038V/BT/IG (0/1-10V output)



HCD038/BT/IG (DALI output)







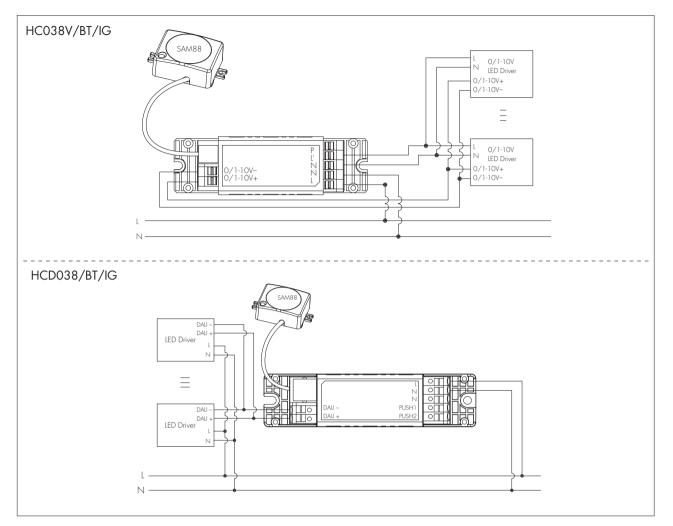
Wire Preparation



0.75~1.5m	m
< 8mm →	

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		
Operating voltage	5V	DC	
Detection range *	HIRO5 & HIRO5/FM & Max installation height: Max detection range: 0 HIR63 Max installation height: Max detection range: 12 HIR63/R Max installation height: Max detection range: 12 HIR11 Max installation height: Max detection range: HIR12 Max installation height: Max detection range:	3m 5m (diameter) 3m 2m (diameter) 2m(forklift); 8m(single p 4m(diameter) 15m (forklift) 12m (single person) 20m (diameter) 15m (forklift) 12m (single person)	

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.

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.

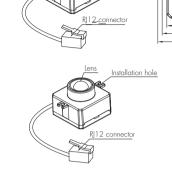
Installation hole



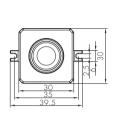
PIR sensor head The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

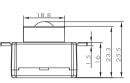
B. HIRO5/E

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



Lens





Installation hole

18.8



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

D. HIR07

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

E. HIR11/S

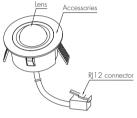
PIR sensor head Surface mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

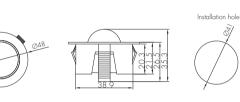
F. HIR11/F

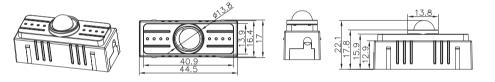
PIR sensor head Flush mounting For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

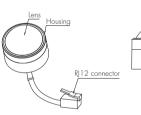
G.HIR11/C

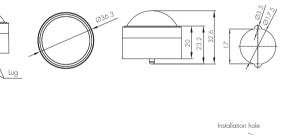
PIR sensor head Screw to the luminaire by conduit For highbay application IP65 (facia / lens part) The cable length is around 65cm. Photocell&PIR sensor integrated daylight harvest function

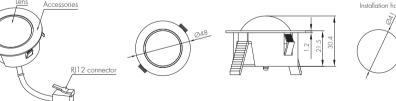


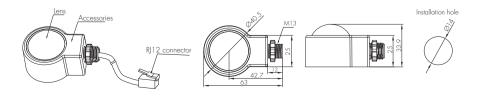


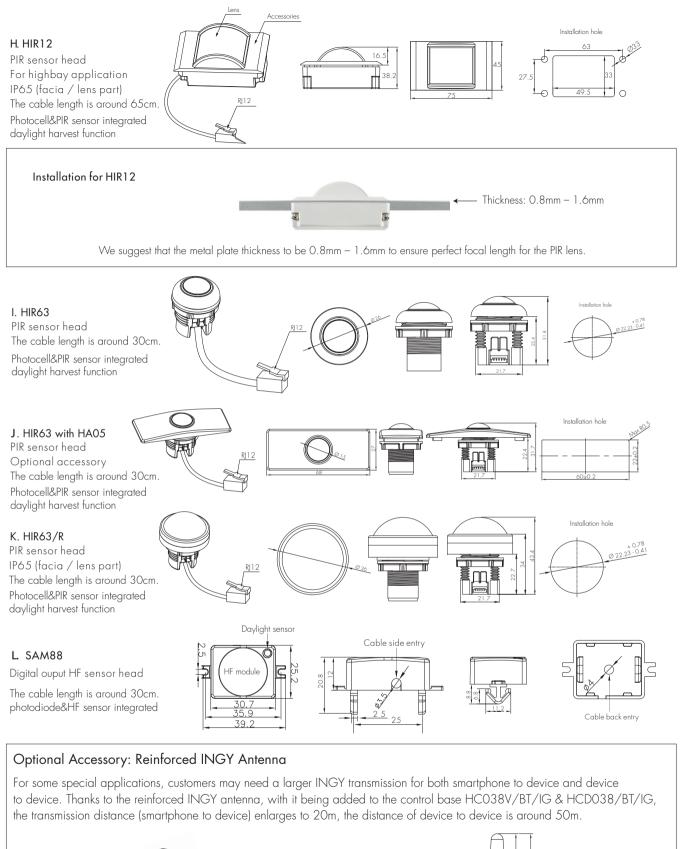










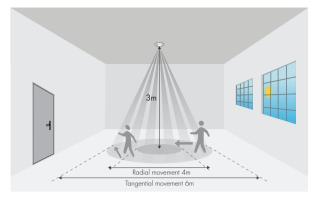




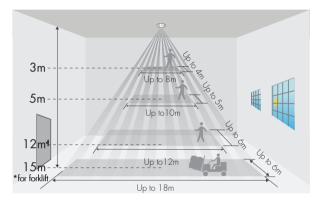
Subject to change without notice.

Detection Pattern

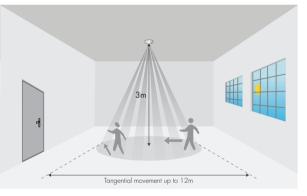
HIRO5 & HIRO5/FM & HIRO5/E & HIRO7



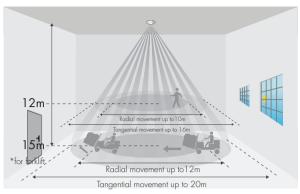




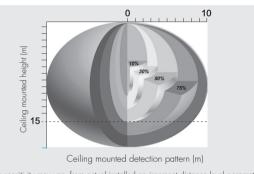






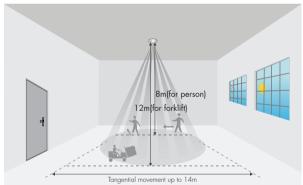


SAM88



The sensitivity may vary from actual installed environment, distance level parameters can be adjusted in software to well fit in actual situation to avoid false trigger issue





*The detection patterns are based upon 5km/h movement speed.

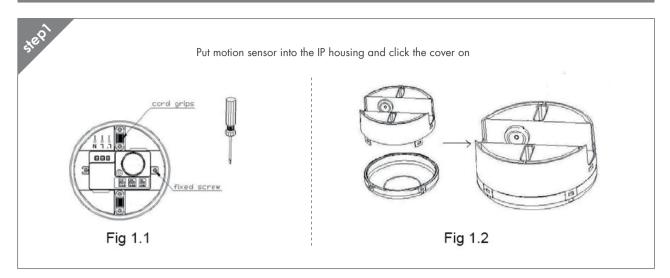
HCD038/BT/IG optional with surface mount IP65 box as standalone installation———HCD038/BT/IG/65

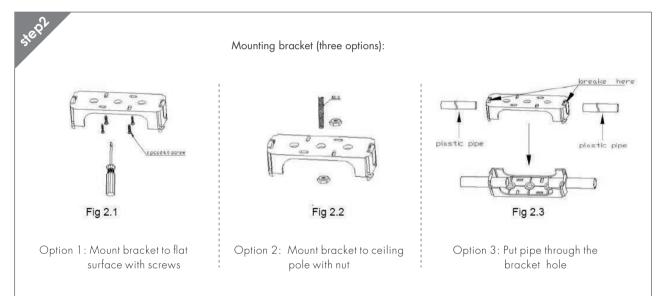
Mechanical structure

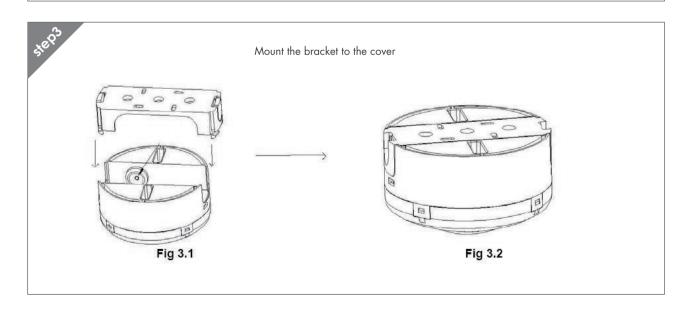


Subject to change without notice.

Installation Instructions







Subject to change without notice.