

THINQ



Detached Motion Sensor with THINQ

Detached Motion Sensor with THING

HCD038/BT/IG
DALI Output



HCD038V/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 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.



HCD038/BT/IG

App Features

Grouping luminaires via mesh network

- Two levels: room & group
- Synchronization 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

Dali addressing

Unlimited network size

Unlimited group size

Emergency lighting

Gateway-less operation

AES-256 encryption

Internet-of-Things (IoT) featured: Asset tracking, indoor navigation, sensor data transmission

Network sharing via QR code or keycode

Interoperability with INGY product portfolio

Compatible with EnOcean range of wireless switches

Device firmware update over-the-air OTA

Continuous development in progress...

Hardware Features

HCD038V/BT/IG 0/1-10V output :

- 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 / THING switch
TWALL4B

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THINQ Transceiver

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

Input & Output Characteristics

Operating voltage	220~240VAC 50/60Hz
Standby power	<1W
Load ratings	Capacitive: 400W; Resistive: 800W
HCD038/BT/IG	30mA (max. 15 devices)
Warming up	20 sec.

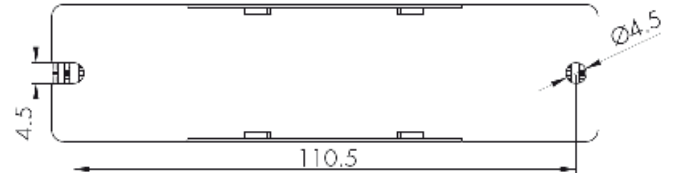
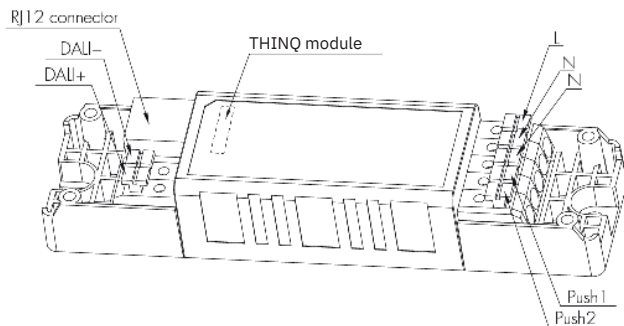
Safety & EMC

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

Environment

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

Mechanical Structure & Dimensions



Wire preparation

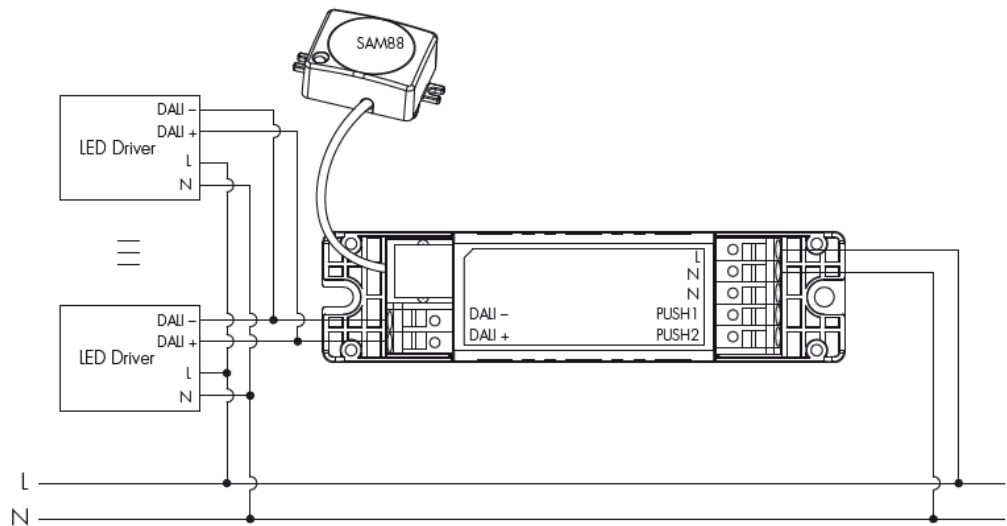


To make or release the wire from the terminal, use a screwdriver to push down the button.

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Wiring diagram



Technical specifications for sensor heads

PIR sensor properties

Sensor principle	PIR detection
Operating voltage	5VDC
	HIR05 & HIR05/FM & HIR05/E & HIR07
	Max. installation height 3m
	Max. detection range 6m (diameter)
Detection range *	HIR11
	Max installation height 15m (forklift)
	12m (single person)
	Max detection range 20m (diameter)
	HIR12
	Max installation height 15m (forklift)
	12m (single person)
	Max detection range 18m * 6m (L * W)

HF sensor properties

Sensor principle	High Frequency (microwave)
Operating voltage	5VDC
Operating 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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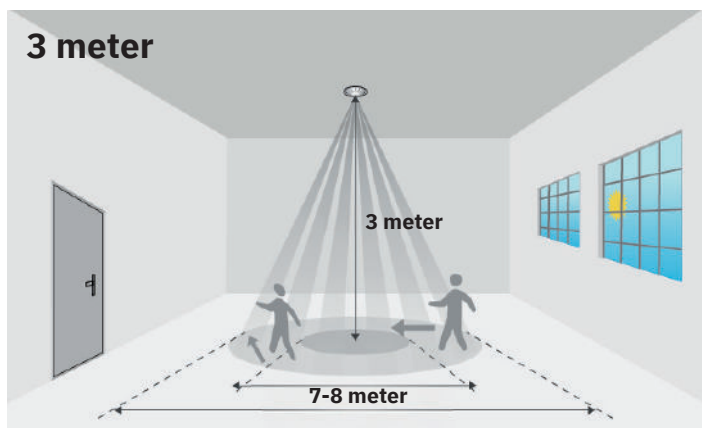
DALI Output

HYTRONIK®

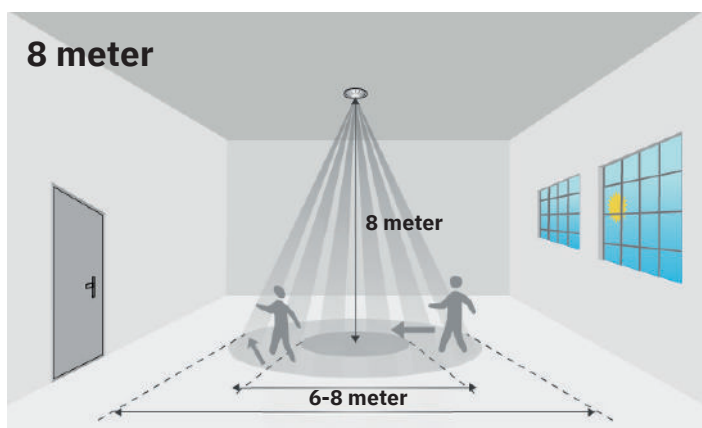
Wirepas  **CB**  **CE**  SELV IP20  

Detection pattern

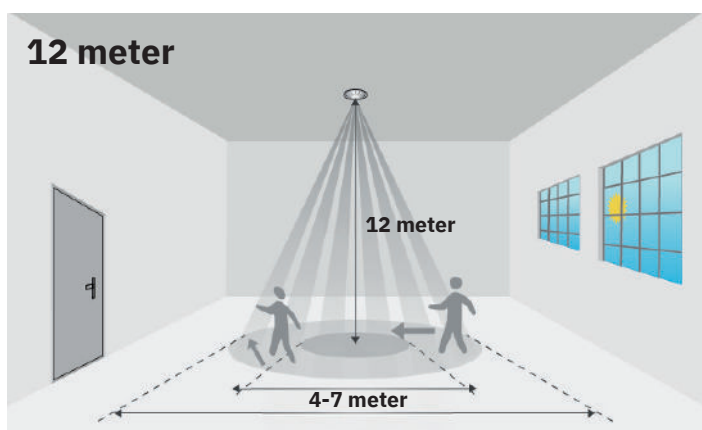
Detection area examples 3 - 8 and 12 meters.



Ceiling height 3 meter
Detection area 7-8 meter



Ceiling height 8 meter
Detection area 6-8 meter



Ceiling height 12 meter
Detection area 4-7 meter

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.

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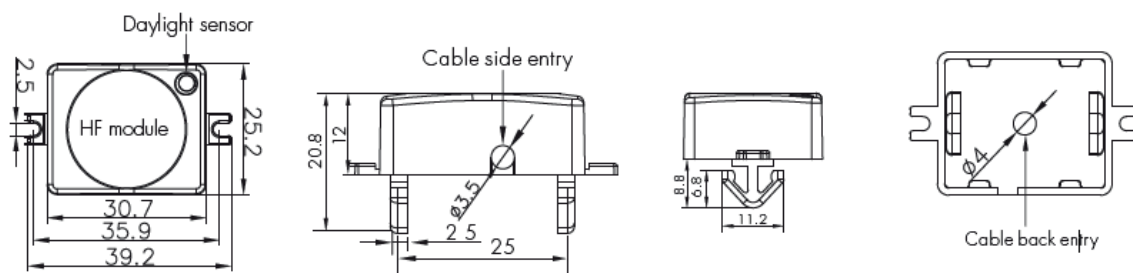
Wirepas  **CB**   **CE** SELV IP20  

SAM 88 SENSOR

Digital output HF sensor head

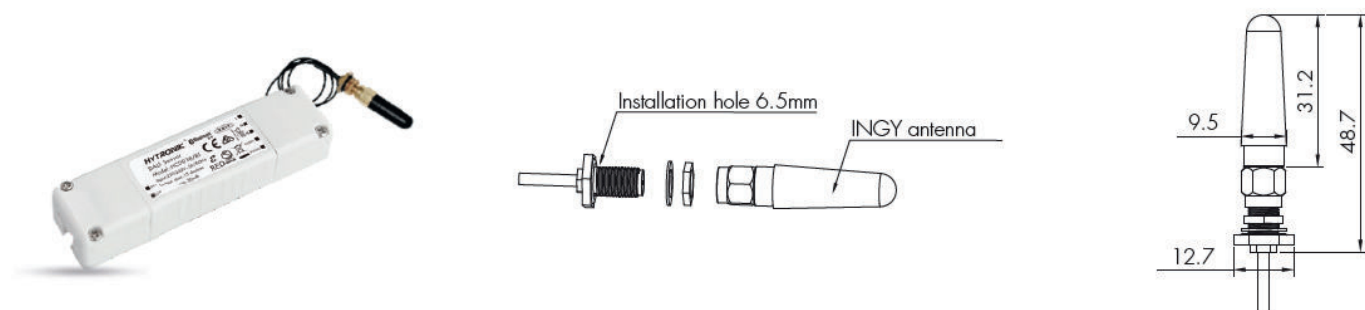
The cable length is around 30cm.

photodiode & HF sensor integrated



REINFORCED THINQ ANTENNA

For some special applications, customers may need a larger transmission for both smartphone to device and device to device. Thanks to the reinforced THINQ antenna, with it being added to the control base 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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