On/off Control HF Sensor

HC008S

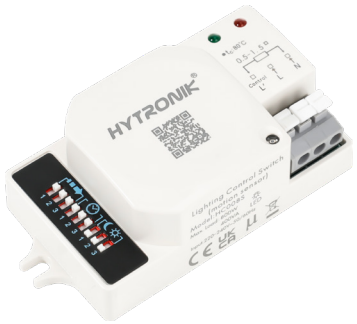
Super-compact Version

HYTRONIK®

CE UKCA IP20

Product Description

HC008S is a compact indoor occupancy detector with On/Off control, ideal for integration into office, commercial, meeting room, and classroom lighting fixtures. Perfect for both new luminaire designs and installations.



Hardware Features

- On/Off control with relay output
- Zero crossing detection circuit reduces in-rush current and prolongs relay life
- 5-Year Warranty

Technical Data

Input Characteristics	
Mains voltage	220~240VAC 50Hz
Stand-by power	<0.5W
Load ratings:	Capacitive: Max. 400VA Resistive: Max.800W
Warming-up	20s

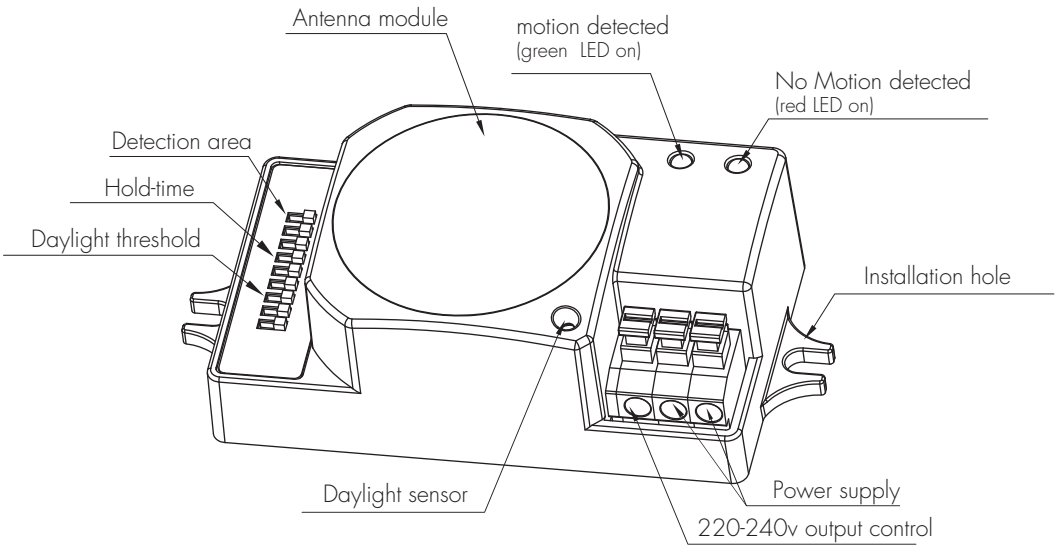
Safety and EMC	
EMC standard (EMC)	EN55015, EN61000
Safety standard (LVD)	EN61058-1, EN61058-1-2
Radio Equipment (RED)	EN300440，EN301489, EN301489, EN62479
Certification	CE , UKCA, RCM

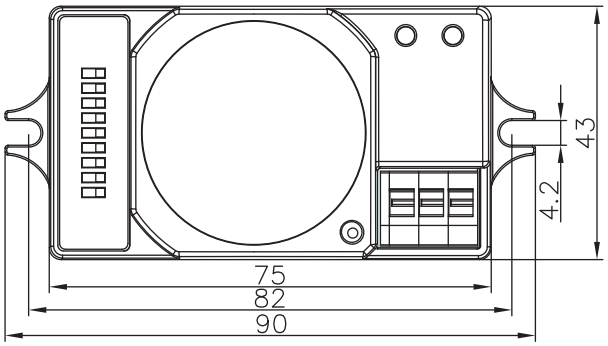
Sensor Data	
Sensor principle	High Frequency (microwave)
Operation frequency	5.8GHz +/- 75MHz
Transmission power	<0.2mW
Detection range*	Max. (Øx H) 8m x 5m
Detection angle	30° ~ 150°
Sensitivity	10% / 30% / 50% / 75%/ 100%
Hold-time	5s / 30s / 180s / 300s / 15min / 25min
Daylight threshold	2Lux / 5Lux / 20Lux / 30Lux / Disable

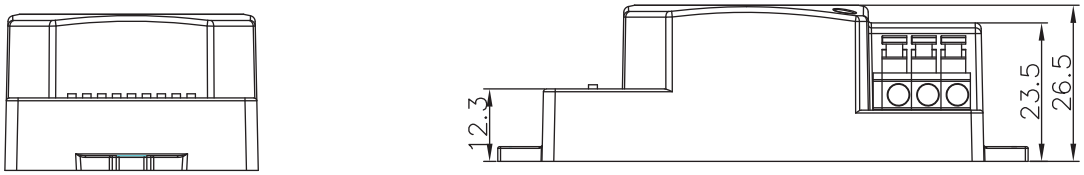
* For more details of detection range, please refer to "detection pattern" section.

Environment	
Operation temperature*	Ta: -20°C ~ +60°C
IP rating	IP20

Mechanical Structure & Dimensions

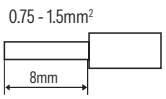






Wire Preparation

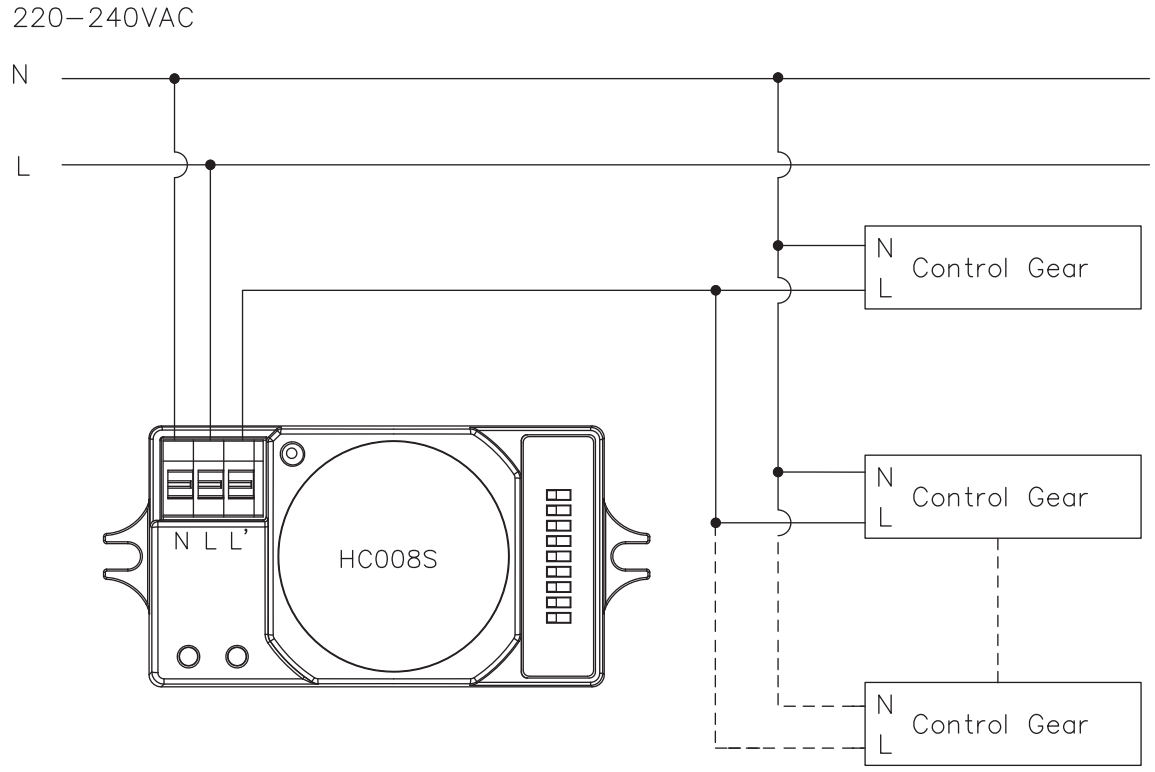




To make or release the wire from the terminal, use a screwdriver to push down the button.

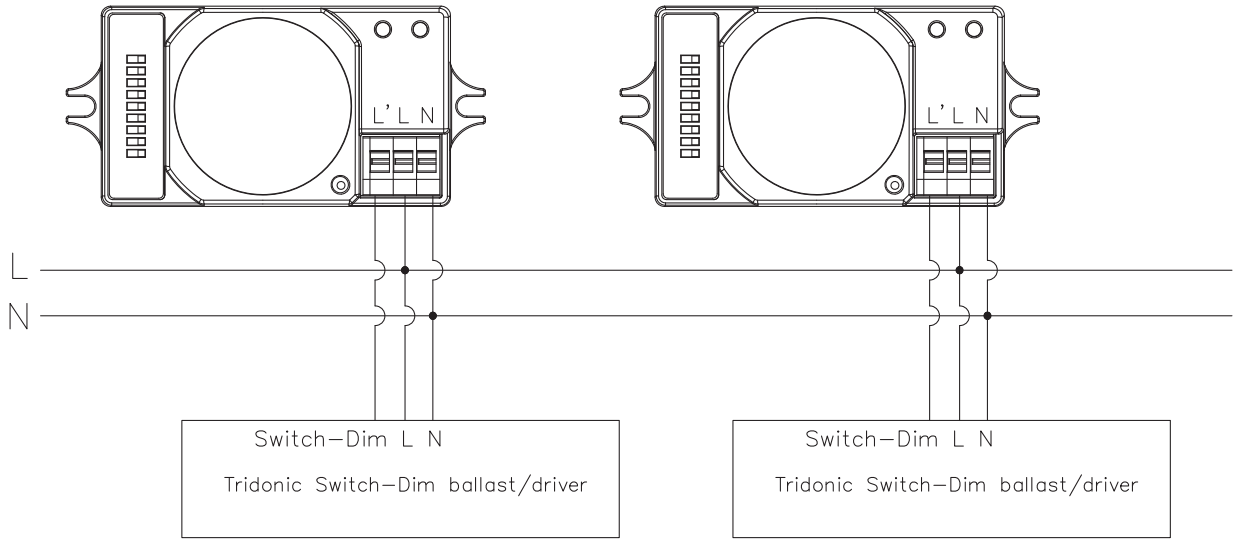
Wiring Diagram 1

To connect several standard control gear with 1 sensor (ON/OFF function), the wiring should be.

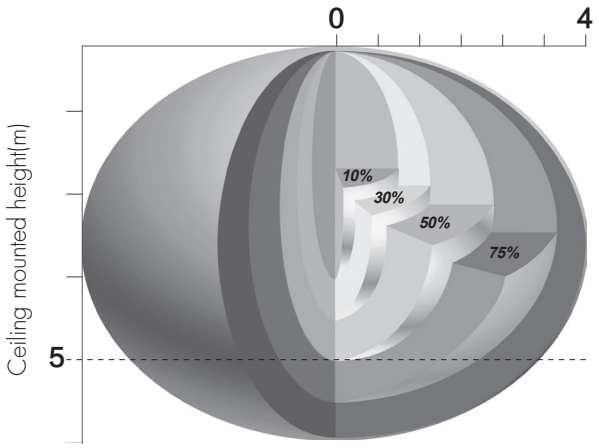


Wiring Diagram 2

With Tridonic switchDIM ballast / driver (Excel ballast/driver, corridor function) , this sensor can also achieve dimming control.



Detection Pattern



Ceiling mounted detection pattern (m)

DIP Switch Settings

1 Detection Range

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.

	1	2	3	
I	●	●	●	100%
II	○	●	●	75%
III	●	○	●	50%
IV	●	●	○	30%
V	○	○	○	10%

I – maximum range 100%
II – 75%
III – 50%
IV – 30%
V – 10%

2 Hold Time

Hold-time means the time period you would like to keep the lamp on100% after the person has left the detection area.

	1	2	3	
I	●	●	●	5s
II	○	●	●	30s
III	●	○	●	180s
IV	○	○	●	300s
V	●	●	○	15min
VI	○	○	○	25min

I – Walk test mode 5s
II – 30s
III – 180s
IV – 300s
V – 15 minutes
VI – 25 minutes

3 Daylight Threshold

The daylight threshold can be set on DIP switches, to fit for particular application.

"daylight" : The lamp works always,even during daylight.
"twilight" : The lamp works only in twilight and darkness.
"darkness" : The lamp works only in darkness.

	1	2	3	
I	●	●	●	2 lux
II	○	●	●	5 lux
III	●	○	●	20lux
IV	○	●	○	30lux
V	○	○	○	disable

I – 2 lux darkness operation only
II – 5 lux darkness operation only
III – 20 lux twilight operation
IV – 30 lux twilight operation
V – *daylight, daylight sensor disabled

Additional Information / Documents

1. To learn more about detailed product features/functions, please kindly refer to
   https://hytronik.com/product/hc008s

2. Regarding precautions for Microwave sensor installation and operation, please kindly refer to
   https://hytronik.com/service/downloads (Microwave 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
   https://hytronik.com/products/motion-daylight-sensors

4. Regarding Hytronik standard guarantee policy, please kindly refer to
   https://hytronik.com/service/downloads (Guarantee Conditions document)