

## On/off Control HF Sensor

HC009S

Standard Version

# HYTRONIK®

### Applications

Occupancy detector with on/off control suitable for indoor use.

Suitable for building into the fixture:

- Office / Commercial Lighting
- Meeting room
- Classroom

Use for new luminaire designs and installations



### Features

- Synchronised control with multiple sensor circuits
- Zero crossing detection circuit reduces in-rush current and prolongs relay life
- Loop-in and loop-out terminal for efficient installation
- 5 Year, 50,000hr Warranty

### Technical Data

#### Input Characteristics

Model No.	HC009S
Mains voltage	220~240VAC 50/60Hz
Stand-by power	<0.5W
Load ratings:	
Capacitive	400W
Resistive	1200W
Warming-up	20s

#### Safety and EMC

EMC standard (EMC)	EN55015, EN61000
Safety standard (LVD)	EN60669-1, AS/NZS 60669
Radio Equipment (RED)	EN300 440, EN301489-1, EN301489-3, EN62479
Certification	Semko, CB, CE, EMC, RED, SAA

#### Sensor Data

Model No.	HC009S
Sensor principle	High Frequency (microwave)
Operation frequency	5.8GHz +/- 75MHz
Transmission power	<0.2mW
Detection range	Max. (Ø x H) 12m x 6m
Detection angle	30° ~ 150°
Setting adjustments:	
Sensitivity	10% / 25% / 50% / 75% / 100%
Hold-time	5s ~ 30min (selectable)
Daylight threshold	2 ~ 50 lux, disabled

#### Environment

Operation temperature	Ta: -35°C ~ +70°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

CE RED SAA CB IP20






## DIP Switch Settings

### 1 Detection Range

Sensor sensitivity can be adjusted 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	●	●	○	25%
V	○	○	○	10%




I – 100%  
 II – 75%  
 III – 50%  
 IV – 25%  
 V – 10%

### 2 Hold Time

Select the DIP switch configuration for the light on-time after presence detection. This function is disabled when natural light is sufficient.

	1	2	3	4	
I	●	●	●	●	5s
II	○	●	●	●	30s
III	●	○	●	●	1min
IV	●	●	○	●	5min
V	●	●	●	○	15min
VI	○	○	○	○	30min



I – 5s  
 II – 30s  
 III – 1min  
 IV – 5min  
 V – 15min  
 VI – 30min


### 3 Daylight Threshold

Set the level according to the fixture and environment. The light will not turn on if ambient lux level exceeds the daylight threshold preset.

*Please note that the ambient lux level refers to internal light reaching the sensor.*

Disabling the daylight sensor will put the sensor into occupancy detection only mode.

	1	2	3	4	
I	●	●	●	●	2Lux
II	○	●	●	●	5Lux
III	●	○	●	●	10Lux
IV	●	●	○	●	30Lux
V	●	●	●	○	50Lux
VI	○	○	○	○	Disable



I – 2Lux  
 II – 5 Lux  
 III – 10 Lux  
 IV – 30 Lux  
 V – 50 Lux  
 VI – Disabled

*Note: end-user can also scan the QR code on the housing for DIP switch settings.*