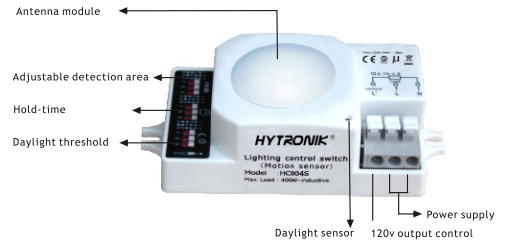
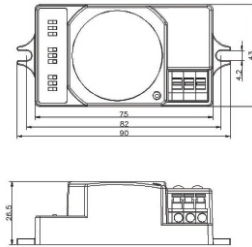
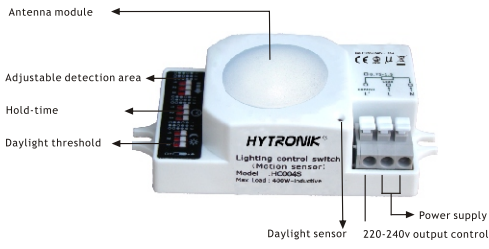


# Domestic version



HC004S (220-240v)

HC104S (120v)

This sensor has exactly the same function as the economy version. It is a simplified cost effective model to the standard version, and it is designed for built-in compact lighting fixtures for consumer home lighting application.

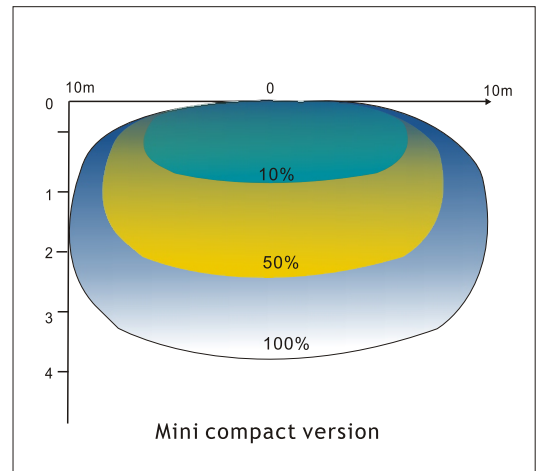
The difference between this model and the standard model are--

## Mini compact version

- Working temp. -10°C ~ +60°C
- Detection range max. 3x20 m
- Super compact size
- 30,000 service hour
- Max. 200w inductive load

## Standard version

- Working temp. -35°C ~ +70°C
- Detection range max. 8x10m
- Medium size
- 100,000 service hour
- Max. 400w inductive load



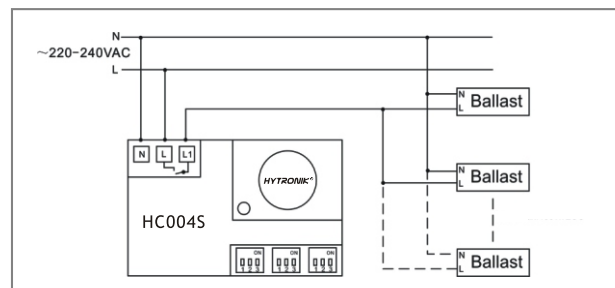
## Functions and options

### A: switch on/off function--

The sensor can switch on/off halogen transformer, non-dimmable fluorescent ballast, non-dimmable LED drivers. However there is a limit of max. Load due to the inrush current.

### max. Load (inductive load)--

HC007S: 200w      HC107S: 100w;

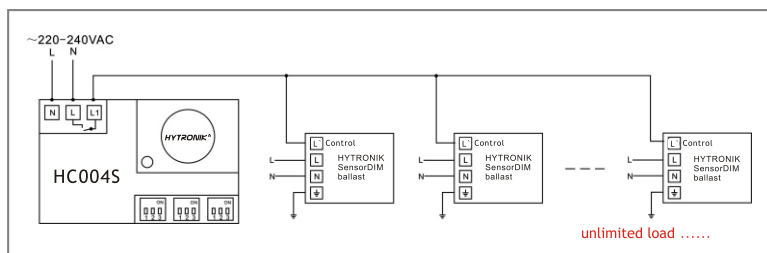


## B: dimming function--

This dimming functions works with HYTRONIK sensorDIM ballast only. The output signal is connected to the control terminal on the ballast, which switches on the light at 100%, and dims to 10% when the signal passes out.

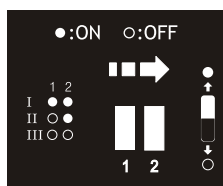
HYTRONIK sensorDIM ballast has a wide coverage on various models and watages of plug-in fluorescent lamps, T5, T8,HID lamps as well as all constant current LED lamps.

For detailed information about the sensorDIM ballast, please refer to page 42.



## C: detection area--

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

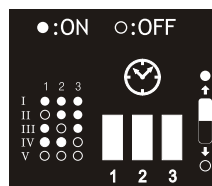


Recommendation

|     | 1 | 2 |     |
|-----|---|---|-----|
| I   | ● | ● | 20m |
| II  | ○ | ● | 10m |
| III | ○ | ○ | 4m  |

## D: hold-time--

Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detected area.



Recommendation

|     | 1 | 2 | 3 |       |
|-----|---|---|---|-------|
| I   | ● | ● | ● | 5s    |
| II  | ○ | ● | ● | 30s   |
| III | ● | ○ | ○ | 1min  |
| IV  | ● | ● | ○ | 10min |
| V   | ○ | ○ | ○ | 15min |

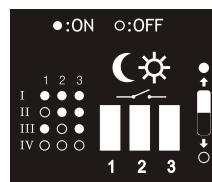
## E: daylight sensor--

The sensor contains a daylight sensor in order to allow a function only below a defined brightness threshold. To set up "brightness threshold"--

"daylight": The lamp works always, even during daylight.

"twilight": The lamp works only in twilight and in darkness.

"darkness": The lamp works only in darkness.



Recommendation

|     | 1 | 2 | 3 |         |
|-----|---|---|---|---------|
| I   | ● | ● | ● | 2Lux    |
| II  | ○ | ● | ● | 10Lux   |
| III | ● | ○ | ○ | 30Lux   |
| IV  | ○ | ○ | ○ | Disable |

\*\*Disabled\*\* Means sensor is always working, even in bright daylight

## Technical Data

|                        |  |
|------------------------|--|
| Operating voltage:     | HC004S--220-240V ; HC104S--120V  |
| Switched power:        | HC004S--200W ; HC104S--100W  |
| Standby power:         | 0.6w (standby), 1.2w (operation)   |
| Detection area         | 10 / 30 / 50 / 75 / 100% , can be customized                             |
| Hold time              | 5s/30s/180s/300s/15min/25min, can be customized                          |
| Daylight threhold      | 2--500 lux daylight / twilight / darkness , can be customized            |
| Sensor principle       | microwave motion detector  |
| Microwave frequency    | 5.8 GHz +/- 75 MHz   |
| Microwave power        | <1mw   |
| Detection range        | Max. ( $\phi$ x H ): 20m x 3m  |
| Detection angle        | 30--150°   |
| Motion detection       | 1-20km/h(<3m mounting height); 1-200km/h(>5m mounting height)            |
| Mounting height:       | 0.5--3 m.  |
| Operating temperature: | -10°C ~ +60°C  |
| IP rating:             | IP 20 (mounting inside a lamp); IP 65 (mounting in Hytronik special box) |