

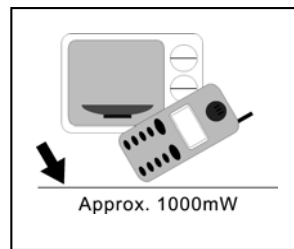
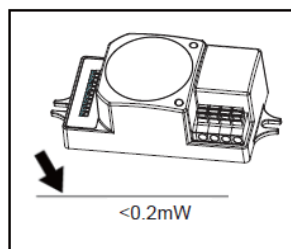
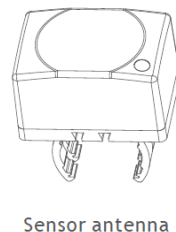
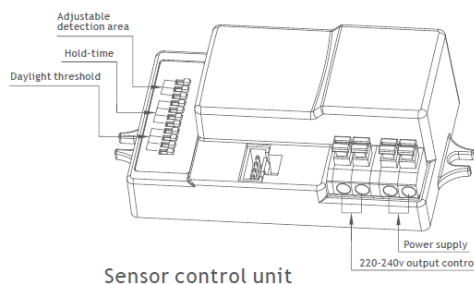
VOLTACON POWER CONVERSION

User Manual of Microwave Motion Sensor

Detached version- economy, Model no.: HC009S-KD

Technical Specifications

PRODUCT TYPE:	Microwave Motion Sensor
OPERATING VOLTAGE:	220/240V ~ 50Hz / 60Hz
HF SYSTEM:	5.8GHz CW radar
TRANSMISSION POWER:	<0.2
RATED LOAD:	800W(resistive load), 400W(capacitive load)
DETECTION ANGLE:	30~150°
POWER CONSUMPTION:	<1W
DETECTION RANGE:	12~18 meters in diameter, adjustable
TIME SETTING:	10s ~ 30 min.
MOUNTING:	Indoors, ceiling & walling mounted
LIGHT CONTROL:	5 ~ 50LUX, disable
Working temperature:	-20 ~ 60°C



The sensor is an active motion detector; it emits a high-frequency electromagnetic wave 5.8GHz and receives its echo. The sensor detects the change in echo from movement in its detection zone. A microprocessor then triggers the switch light ON command. Detection is possible through doors, panels of glasses thin walls.

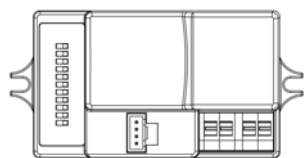
NOTE: the high-frequency output of this sensor is <0.2 ; approximately just 1% of the transmission power of a mobile telephone or the output of a microwave oven.

IMPORTANT

PLEASE READ THESE INSTRUCTIONS CAREFULLY PRIOR TO INSTALLATION AND RETAIN THIS LEAFLET IN A KNOWN AND SAFE PLACE FOR FUTURE REFERENCE.

SECTION 1 INSTALLATION & WIRING

2.0 ENSURE THAT THE ELECTRICITY SUPPLY IS SWITCHED OFF COMPLETELY BEFORE INSTALLING OR SERVICING THIS PRODUCT

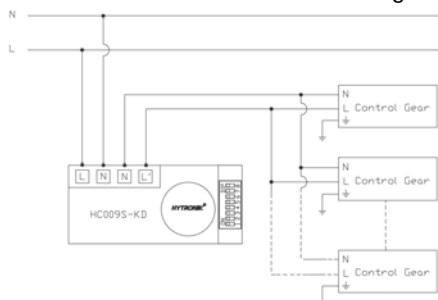


The sensor works with a main voltage of 220-240V (+/-10%) 50/60 Hz.
(100-120V version is available on request.)

The sensor has a 4-wire electrical interface:

- L (phase / 230 V AC)
- N (neutral / 230 V AC)
- N (neutral / 230 V AC)
- L' (switched phase / output)

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



2.1 This sensor is suitable for indoor use, and for installation at 3~8m in height.

2.2 This sensor is particularly designed for lighting fitting where the space is very limited for

a big sensor, such as LED panel bulkhead, 2D lamp. In such application, only the detached small antenna is needed on the outer surface, while the sensor body could be hidden behind the panel with the driver / ballast.

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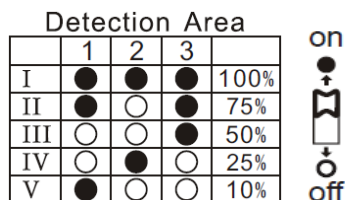
SECTION 2 SETTINGS

Detection range:

This determines the effective range of the motion detector and is set by DIP switches at the sensor itself, refer to figure. Note that reducing the sensitivity will also narrow the detection range.

The following settings are available:

- I - Detection range 100%
- II - Detection range 75%
- III - Detection range 50%
- IV - Detection range 25%
- V - Detection range 10%

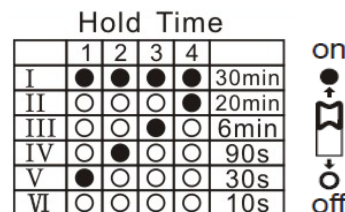


Hold time:

This determines the time the fitting remains at 100% level on motion detection and is set with DIP switches at the sensor itself, refer to figure. The walk test setting is useful when installing the fitting to establish correct operation and range.

The following settings are available:

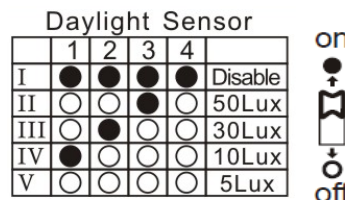
- I - 30 minutes
- II - 20 minutes
- III - 6 minutes
- IV - 90s
- V - 30s
- VI - 10s



Daylight sensor:

This setting holds off the 100% light output should there sufficient daylight and is set using DIP switches at the sensor, refer to figure. The following settings are available:

- I - Photocell disabled
- II - 50 lux daylight operation
- III - 30 lux daylight operation
- IV - 10 lux twilight operation
- V - 5 lux darkness operation only



*In daylight setting the lamp(s) will always be on with motion detected and operate at 100% light output, even in bright daylight.

SECTION 3 TROUBLE SHOOTING

MALFUNCTION CAUSE REMEDY	CAUSE	REMEDY
The load will not work	Incorrect light-control setting selected	Adjust setting
	Load faulty	Replace load
	Mains switch OFF	Switch ON
The load is always on	Continuous movement in the detection zone	Check zone setting
The load is on without any identifiable movement	The sensor is not mounted for reliably detecting movement	Securely mount enclosure
	Movement occurred, but not identified by the sensor (movement behind wall, movement of small object in immediate lamp vicinity etc.)	Check zone setting
The load will not work despite movement	Rapid movements are being suppressed to minimize malfunctioning or the detection radius is too small	Check zone setting