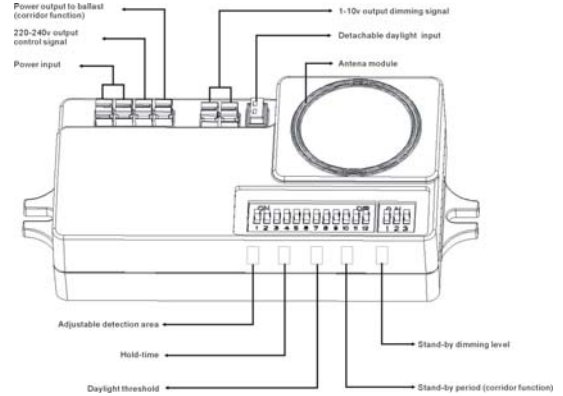




Microwave Motion Sensor – advanced version, Model no.: SLHC003V

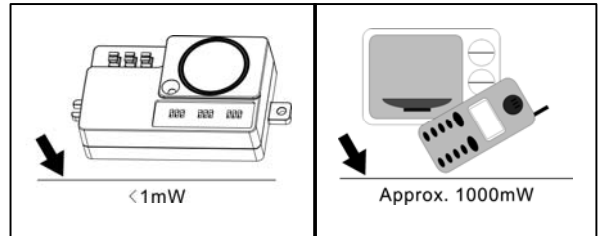
Technical Specifications

PRODUCT TYPE:	Microwave Motion Sensor
OPERATING VOLTAGE:	230/240V ~ 50Hz/ 60Hz
HF SYSTEM:	5.8GHz CW radar
TRANSMISSION POWER:	<1mW
RATED LOAD:	2500W(resistive load), 800W(inductive load)
DETECTION ANGLE:	30~150°
POWER CONSUMPTION:	Approx 0.6W
REACH:	1-8m (radii), adjustable
HOLD TIME SETTING:	5s ~ 25 min.
LIGHT CONTROL:	2 ~ 500LUX (can be customized) and disable
STANDBY PERIOD:	5 min. ~ 1 h
STANDBY DIMMING LEVEL:	10%/ 20%/ 30%/ 40%
MOUNTING:	Indoors and outdoors, ceiling and wall mounted



This sensor is designed for automatic lighting control, fitted with both High Frequency Dimmable ballast and 1~10V Dimmable Ballast, with adjustable settings for range sensitivity, off delay time, light level, standby period(corridor function) and standby dimming level by DIP switches.

Same function as Tridonic Excel Ballast, it has built in the corridor function inside Motion sensor instead, when the surrounding natural daylight reaches the setting value, the sensor drives the lamps to work 100% power when there is presence of human detected. -> when people leaves, the ballast still hold the lamps at 100% within the first specified hold time, -> after the hold time, drives the lamp to work on dimmed low light output -> and eventually switch off the light after the second specified stand-by period.



NOTE: the high-frequency output of this sensor is <1mW; 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 GENERAL GUIDELINES

- 1.0 This sensor should be installed in accordance with wiring regulations by a qualified electrician.
- 1.1 This sensor should not be modified in any way. We will not accept any responsibility for modified products or for any damage caused as a result of any modifications. Any modifications made to this product will immediately invalidate any warranties issued with this product.
- 1.2 It is the responsibility of the installer to consider any fire risk and take the appropriate precautions.
- 1.3 This sensor should be connected to a stable and permanent mains supply of 230/240V~50Hz./ 60Hz.

SECTION 2 INSTALLATION & WIRING

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

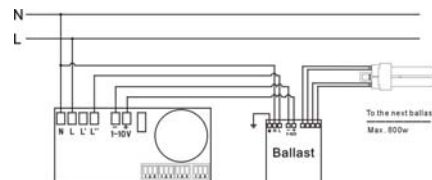
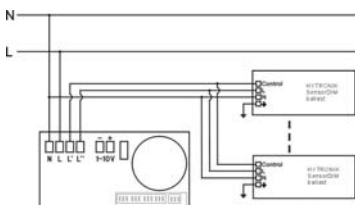
Bring in electrical cable and make the electrical connections ensuring cable is securely fixed at the point of entry. Connection between the sensor and ballast: sensor Live(L) to ballast Live (L), sensor neutral(N) to ballast neutral (N), sensor switch off function after standby period (L'') to ballast Live (L).

Wiring with sensor DIM ballast:

The sensor control(L') to ballast "control" terminal

Wiring with ordinary 1~10V dimmable ballast:

The sensor 1~10V to ballast 1~10V terminal



2.2 This sensor is suitable for both indoor and outdoor use, and is also designed for installation at 3~8m in height.

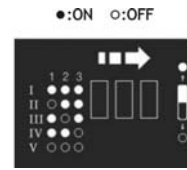
* While sensor use with sensor DIM ballast or other dimming ballast, please keep the sensor antenna module from the ballast and lamp filament by at least 80mm.

SECTION 3 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:

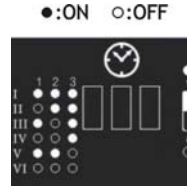
- I - maximum range up to 11m
- II - range up to 9m
- III - range up to 8m
- IV - range up to 7m
- V - range up to 6m



Hold-time:

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

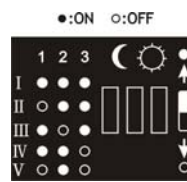
- I - Walk test mode 5s
- II - 30s
- III - 3 minutes
- IV - 5 minutes
- V - 15 minutes
- VI - 25 minutes



Detachable 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:

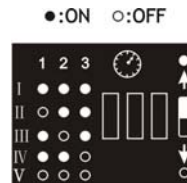
- I - 2 lux darkness operation only
- II - 5 lux darkness operation only
- III - 20 lux twilight operation
- IV - 50 lux twilight operation
- V - *daylight, photocell disable



Stand-by period(corridor function):

This is the time period you would like to keep at the low light output level before it is completely switched off in the long absence of people.

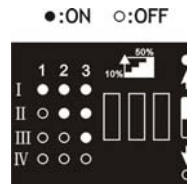
- I - 5 min
- II - 10 min
- III - 20 min
- IV - 40 min
- V - 1 hour



Stand-by dimming level:

This is the dimmed low light output level you would like to have after the hold-time in the absence of people.

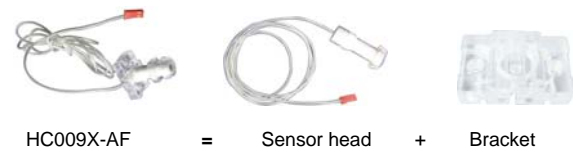
- I - 10%
- II - 20%
- III - 30%
- IV - 40%



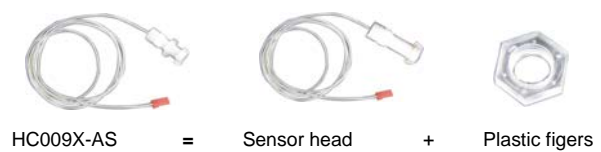
Accessories:

We have offered 3 package of accessories to help fixing the daylight sensor onto fixtures. All parts are made of transparent PC, transparent cable length 1 meter.

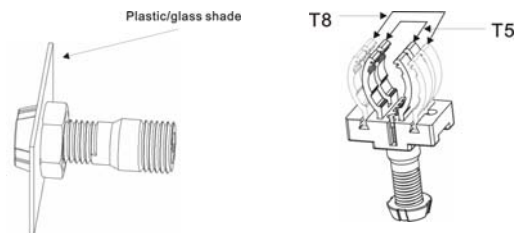
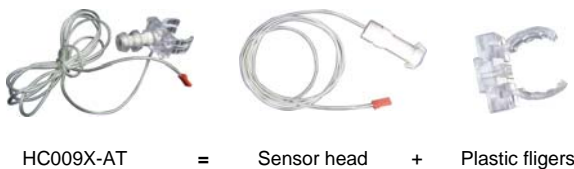
Mounting on flat surface:



Mounting on glass/plastic shades:



Mounting on linear tubes:





Technical Data

Operating voltage	220-240V±10%, 50/60Hz, 100-127V±10% on request
Switched power	2500W (resistive load), 800W (inductive load)
Standby power	<1W
Detection area	10 / 30 / 50 / 75 / 100%, can be customized
Hold time	5s/30s/180s/300s/15min/25min, can be customized
Daylight threshold	2 - 500 lux
Sensor principle	HF motion detector
HF/Microwave frequency	5.8 GHz +/- 75 MHz
HF/Microwave power	<1mw, varies in different models
Detection range	1 - 30m, varies in different models
Detection angle	30 - 150°, varies in different models
Motion detection	1-20km/h (<3m mounting height); 1-200km/h (>5m mounting height)
Mounting height	0.5 - 20m, varies in different models
Operating temperature	-35°C ~ +70°C