Super-compact Version
On/off Control

Model: HC005S

Antenna module
Daylight sensor
LED indication
Detection area
Hold-time
Daylight threshold

L' N N L

Power supply
220-240V out control

ON
1 2 3 4 5 6 7 8 9
OFF

65
71.7
80.5
36.5
4.2
26
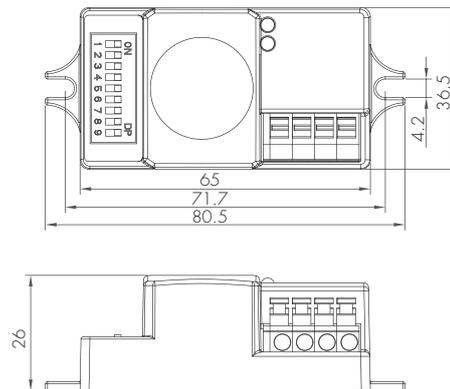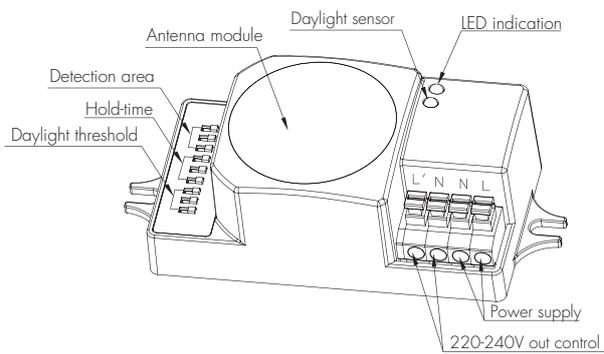
The smallest HF motion sensor on the planet, worldwide patented.

zero-cross relay operation

sensorDIM™

Loop in
Loop out

Detection Pattern

Hold-time 5s~30min

2~50Lux
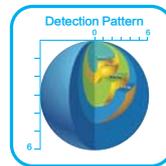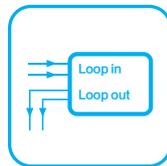
## Functions and Options

1 On-off Control

This sensor is a motion switch, which turns on the light on detection of people movement, and turns off after a pre-selected hold-time when there is no people around. A daylight sensor is also built-in to prevent the light switching on when there is sufficient natural light.
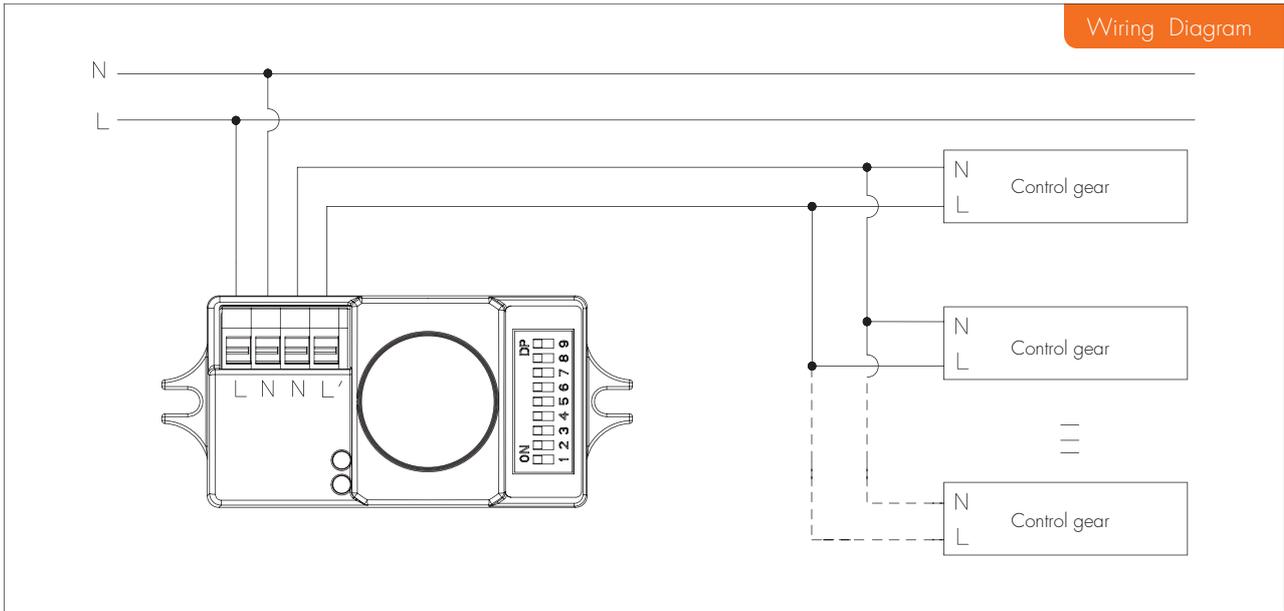
With sufficient natural light, the light does not switch on when presence detected.
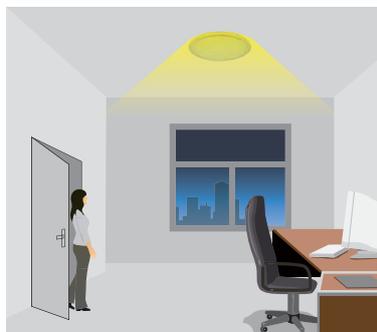
With insufficient natural light, the sensor switches on the light automatically when person enters the room.

The sensor switches off the light automatically after the hold-time when there is no motion detected.

N

L

L N N L'

N Control gear
L

N Control gear
L

≡

N Control gear
L

2 Tri-level dimming control

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

N

L

L N N L'

SwitchDIM
N Control gear
L

SwitchDIM
N Control gear
L

SwitchDIM
N Control gear
L
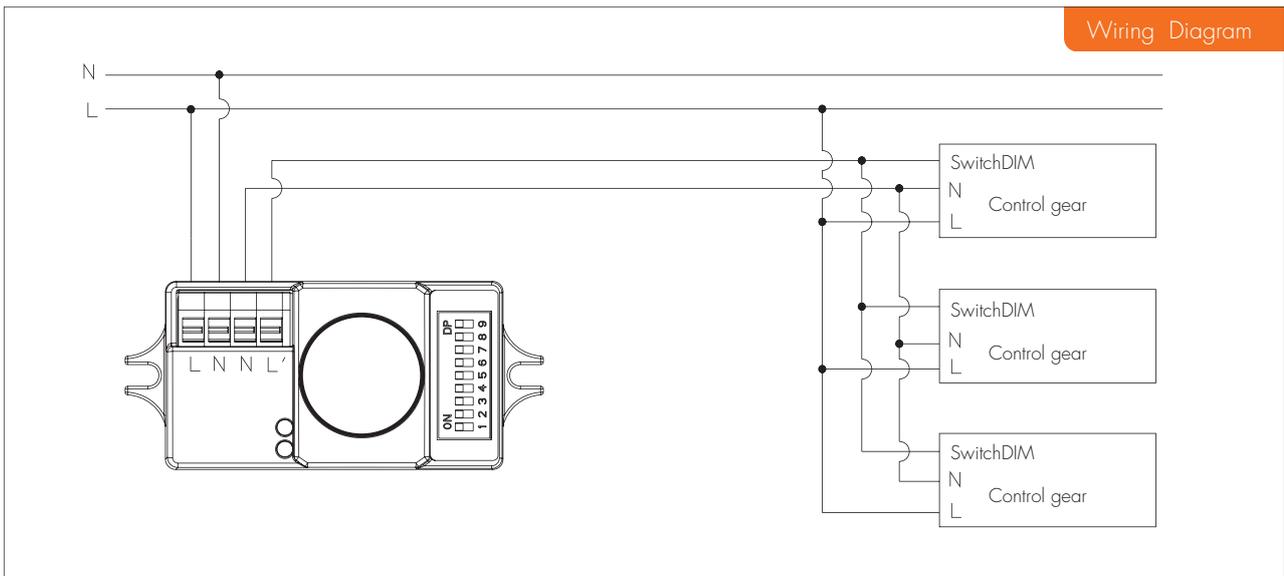
## 3 Zero-cross relay operation

Designed in the software, sensor switches on/off the load right at the zero-cross point, to ensure the in-rush current is minimised, enabling the maximum lifetime of the relay.

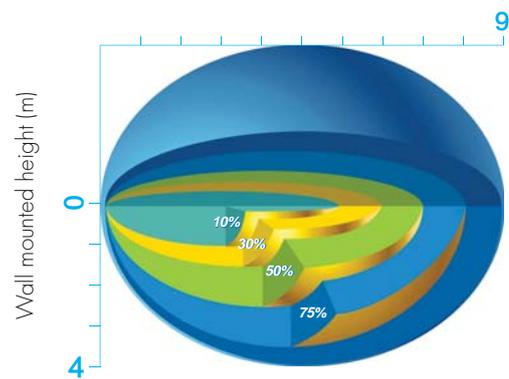zero-cross point

Alternating current
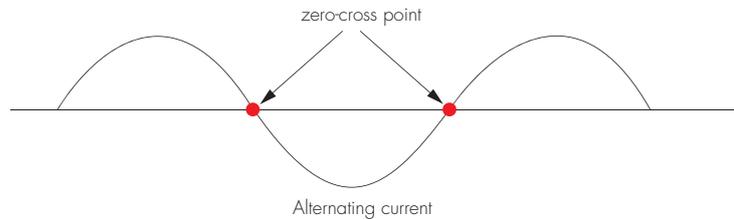
4 Loop-in and loop-out terminal

Double L N terminal makes it easy for wire loop-in and loop-out, and saves the cost of terminal block and assembly time.

Detection Pattern
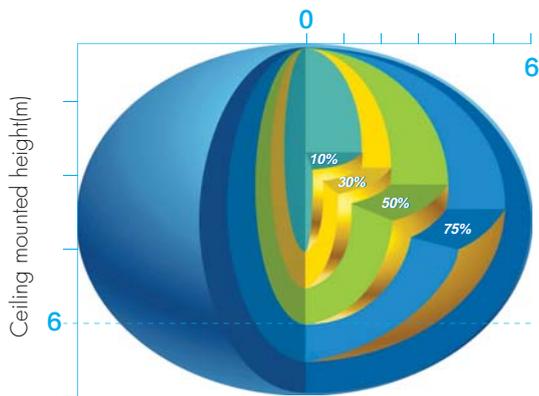
Ceiling mounted detection pattern (m)

Wall mounted detection pattern (m)

Settings

❶ Detection area

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 – 100%
II – 75%
III – 50%
IV – 30%
V – 10%

❷ Hold-time

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

	1	2	3	
I	●	●	●	5s
II	●	○	●	30s
III	●	○	○	1min
IV	○	●	●	5min
V	○	●	○	10min
VI	○	○	●	20min
VII	○	○	○	30min

I – 5s
II – 30s
III – 1min
IV – 5min
V – 10min
VI – 20min
VII – 30min

❸ Daylight sensor

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 .
"Darkness" : The lamp works only in darkness.

	1	2	3	
I	●	●	●	Disable
II	○	●	●	50Lux
III	○	●	○	20Lux
IV	○	○	●	5Lux
V	○	○	○	2ux

I – Disable
II – 50 Lux
III – 20 Lux
IV – 5 Lux
V – 2 Lux

Technical Data

Operating voltage	220-240VAC
Switched power	Max.400W (capacitive) Max.800W(resistive)
Stand-by power	<0.5W
Warmming-up time	20s
Detection area	10/30/50/75/100%, can be customized
Hold-time	5S/30S/1min/5min/10min/20min/30min, can be customized
Daylight threshold	2~50Lux daylight/twilight/darkness, can be customized
Microwave frequency	5.8GHz+/-75MHz
Microwave power	<0.2mW
Detection range	Max. (øxH): 12m x 6m
Detection angle	30°~150°
Mounting height	Max.6m
Operating temperature	-35°C ~ +70°C
IP rating	IP20 IP65 (mounted in Hytronik special box)
certificate	Semko, CB, EMC, CE, R&TTE,SAA