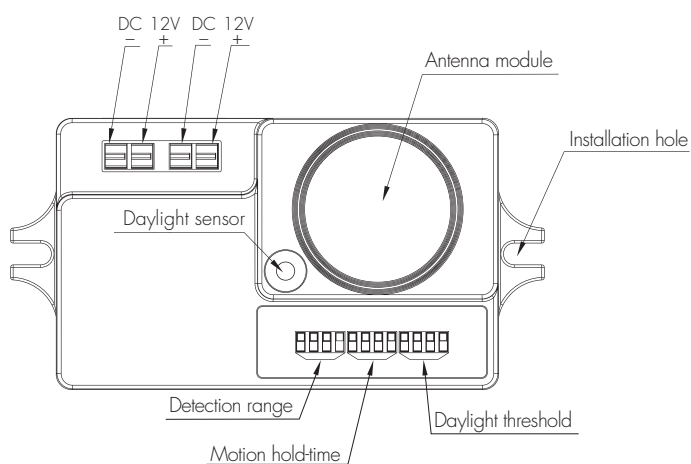
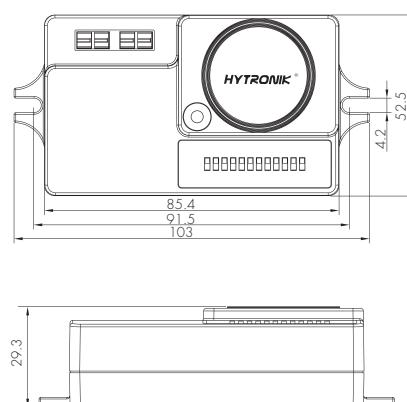


DC Operation Version On/off Control

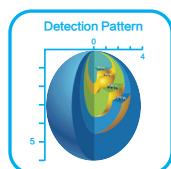
Model: HC501S (12V~48V)



Model: HC501S



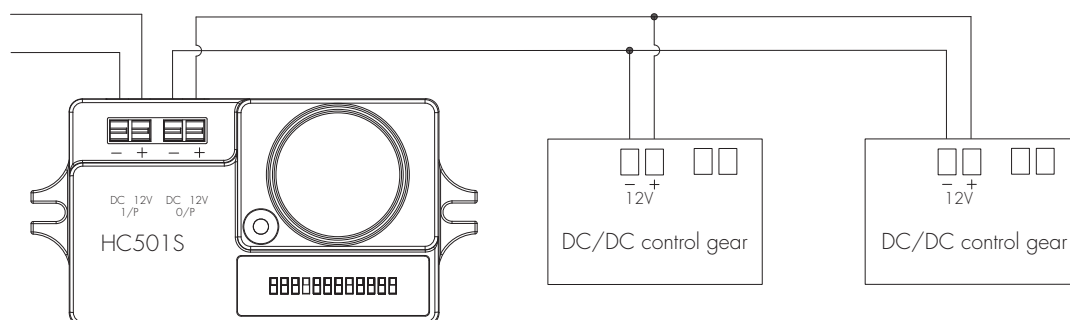
Mechanical structure (mm)



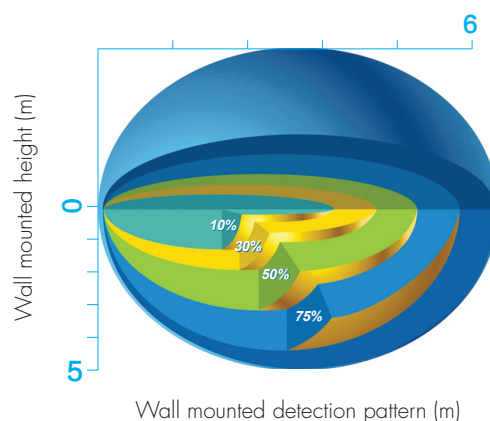
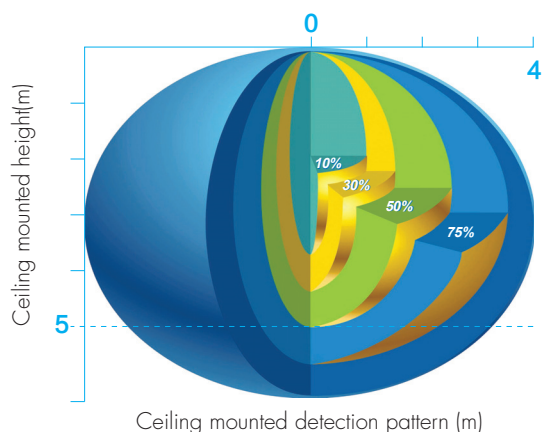
Product Functions and Features

1 On-off function

Wiring Diagram



Detection Pattern



Settings

1 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	4	
I	●	●	●	●	100%
II	●	○	●	●	75%
III	●	●	○	●	50%
IV	●	●	●	○	25%
V	○	○	○	○	10%

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

2 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.

	1	2	3	4	
I	●	●	●	●	5s
II	○	●	●	●	30s
III	●	○	●	●	1min
IV	●	●	○	●	5min
V	●	●	●	○	10min
VI	○	○	○	○	30min

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

3 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 and in darkness.
- "Darkness" : The lamp works only in darkness.

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

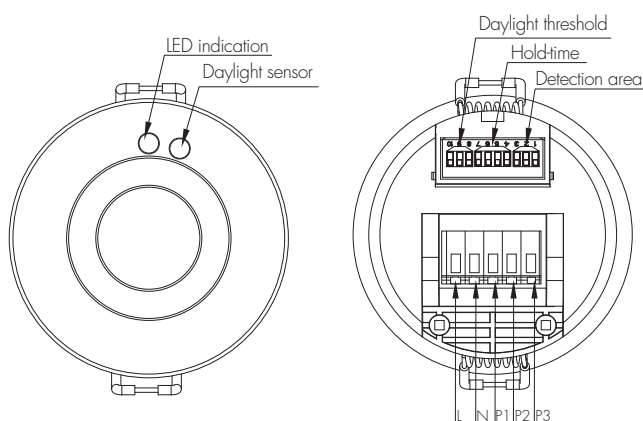
- I – Disable
- II – 50 Lux
- III – 30 Lux
- IV – 10 Lux
- V – 5 Lux
- VI – 2 Lux

Technical Data

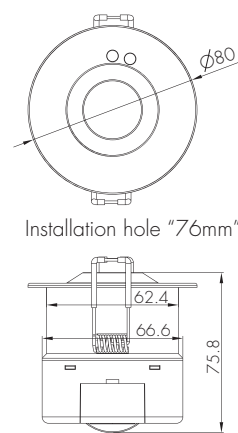
Operating voltage	12V~48V DC
Switched power	Max. 6A
Stand-by power	<0.5W
Detection area	10/25/50/75/100%, can be customized
Hold-time	5s/30s/1min/5min/10min/30min, can be customized
Daylight threshold	2~50Lux, disable, can be customized
Sensor principle	HF (microwave) motion detector
HF (microwave) frequency	5.8 GHz+/-75MHz
HF (microwave) power	<0.2mW
Detection range	Max. (∅ x H): 1.2mX6m
Detection angle	30~150°
Mounting height	Max. 6m
Operating temperature	-35°C ~ +70°C
IP rating	IP20 IP65 (mounted in Hytronik special box)

Dry Contact Version 3-pole Relay

Model: HC502SDC (12V Input)

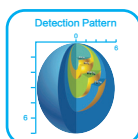


Model: HC502SDC

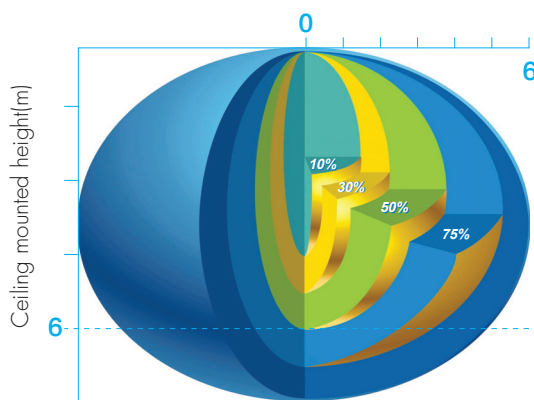


Installation hole "76mm"

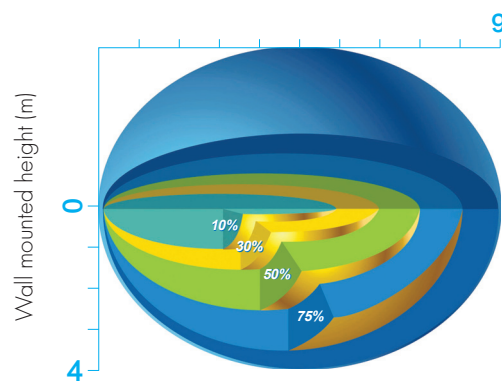
Mechanical structure (mm)



Detection Pattern



Ceiling mounted detection pattern (m)

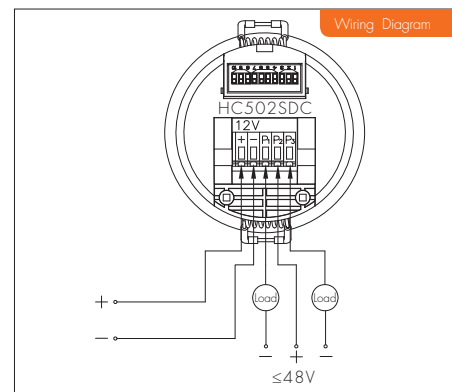
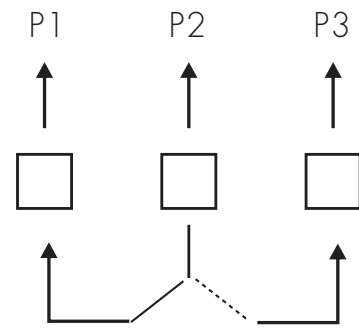


Wall mounted detection pattern (m)

Voltage Free Sensor

Sometimes also known as "Potentio-Free" or "Volt-Free" sensor, the dry contact sensors from Hytronik are designed to operate with external monitoring systems. They operate as conventional occupancy sensors, with the output available as shown in the table below:

Detection State	Contacts Made
Presence	P1 - P2
Absence	P2 - P3



Settings

1 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	●	●	○	25%
V	○	○	○	10%

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

2 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	4	
I	●	●	●	●	5s
II	○	●	●	●	30s
III	●	○	●	●	1min
IV	●	●	○	●	5min
V	●	●	●	○	10min
VI	○	○	○	○	30min

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

3 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 and darkness.

"Darkness" : The lamp works only in darkness.

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

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

Technical Data

Operating voltage	12Vdc
Control capacity	<1A
Stand-by power	<0.5W
Detection area	10/25/50%/75%/100%, can be customized
Hold-time	5s/30s/1min/5min/10min/30min
Sensor principle	HF (microwave) motion detector
HF (microwave) frequency	5.8 GHz+/-75MHz
HF (microwave) power	<0.2mW
Detection range	Max.(Ø x H): 1.2mX6m
Detection angle	30~150°
Mounting height	Max.6m
Operating temperature	-35°C~70°C
IP rating	IP20