BERGMEN®

Microwave Motion Sensor

BMS-400

ON-OFF Function / Smart Version





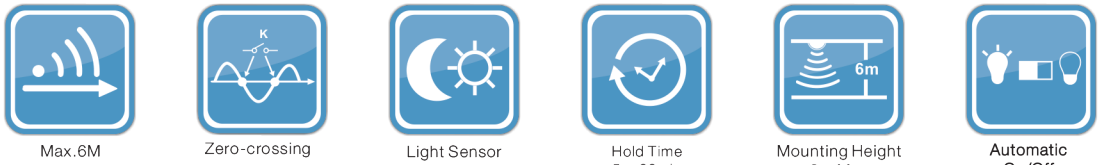
Introduction

- Automatic switching based on motion and light level.
- Zero-crossing point operation helps protect the sensor against in-rush current.
- Super Compact size makes it suitable to fix within most luminaires.
- 4-pole press-in terminal (L, N, N, L'), easy assembly.
- Detection area, time delay and daylight threshold can be precisely set via DIP switch.
- Wide detection area, range up to 12m in diameter.

BMS-400 is an innovative and active motion detector with HF system 5.8GHz. Motion can be detected through plastic, glass and thin non-metal materials.

The sensor supplies a simple energy-saving solution to use light only when and where you need it. It automatically switches on/off light based on motion and ambient light level. Can control all kinds of lamps, for example, halogen, fluorescent and LED lights. Compact size and small casing, suitable to fix within most luminaires. 4-pole press-in terminal (L, N, N, L'), very easy to install.

The high quality relay is particularly suitable for commercial use with switching power up to 400W for LEDs and fluorescent lamps and up to 800W for incandescent lamps.



Max.6M | Zero-crossing point operation | Light Sensor | Hold Time 5s~30min | Mounting Height 6m Max. | Automatic On/Off

BERGMEN®

Microwave Motion Sensor

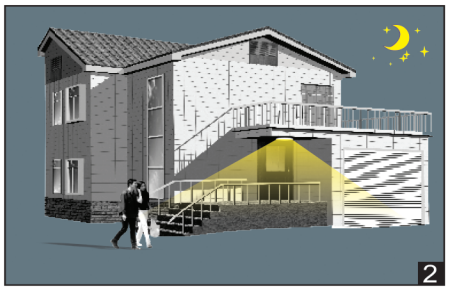
ON -OFF Function

Motion sensor BMS-400 + LED driver or ballast (Any brand)

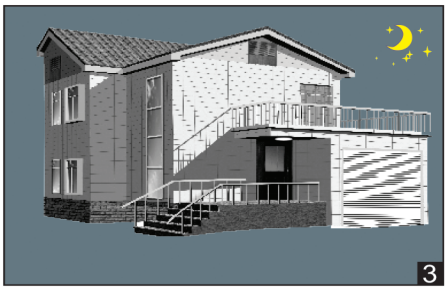
BMS-40 is an innovative motion sensor, switch on the light on detection of movement, and switch off after a hold time when there is no motion detected. As built-in daylight sensor can read brightness value, the sensor does not switch on the light if with sufficient natural light.



With sufficient light, the lamp doesn't switch on.

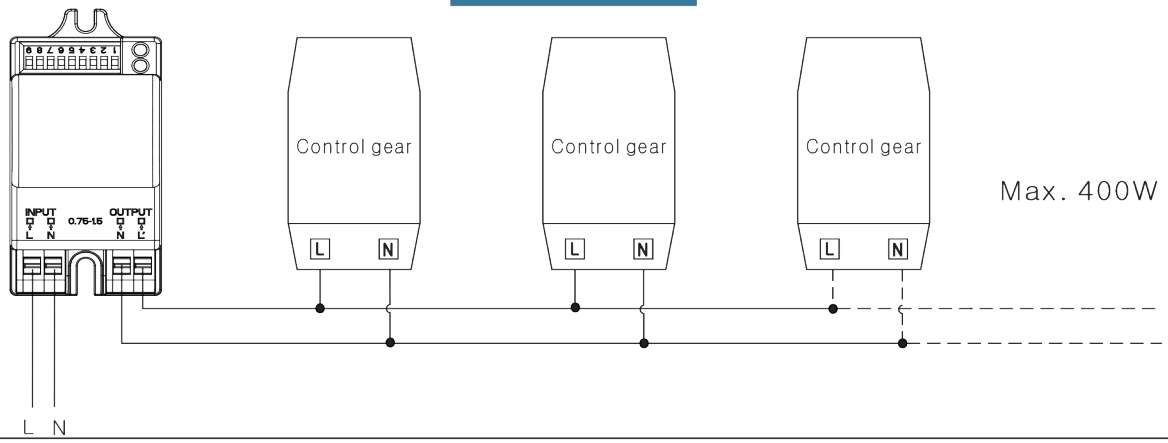


With insufficient ambient light, the sensor switches on the lamp when motion is detected.

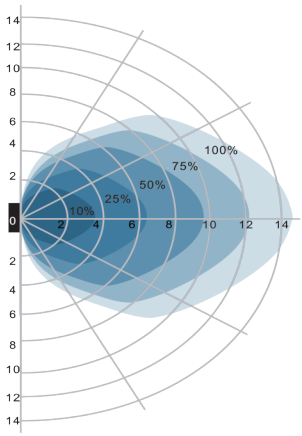


After hold time, the sensor switches off the lamp when no motion is detected.

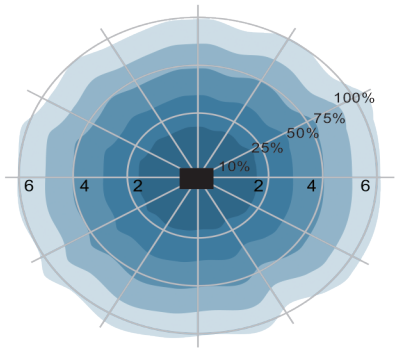
Wiring scheme



Detection Pattern



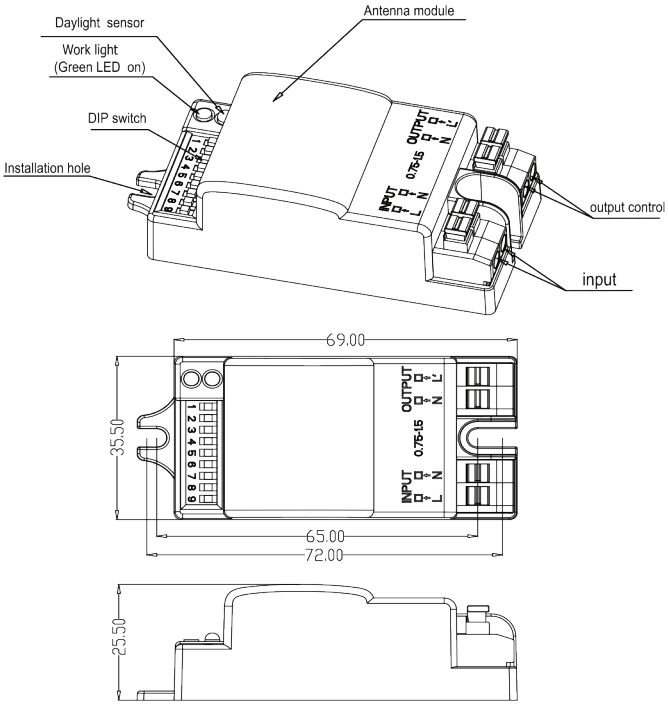
Wall mounting pattern (Unit: m)
Suggested installation height: 1-1.8m



Ceiling mounting pattern (Unit: m)
Suggested installation height: 2.5-6m

Microwave Motion Sensor

BERGMEN®



BMS-400	
Operating voltage	220~240Vac, 50Hz
Rated load	400W(inductive), 800W (resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(standby)
Detection zone	Max.(D x H): 12m x 6m
Detection sensitivity	10% / 25% / 50% / 75% / 100%
Hold time	5s / 30s / 90s / 3min / 20min / 30min
Daylight sensor	2lux / 10lux / 25lux / 50lux / Disable
Mounting height	6m Max.
Motion detection	0.5~3m/s
Detection angle	150°(wall installation) 360°(ceiling installation)
Operating temperature	-20℃~60℃
IP rating	IP20

Setting

By selecting the combination on the DIP switch, sensor data can be precisely set for each specific application.

ON		1	2	3	
	I	ON	ON	ON	100%
	II	–	ON	ON	75%
	III	ON	–	ON	50%
	IV	–	–	ON	25%
	V	–	–	–	10%

Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

ON		4	5	6	
	I	ON	ON	ON	5s
	II	–	ON	ON	30s
	III	ON	–	ON	90s
	IV	–	–	ON	3min
	V	ON	ON	–	20min
	VI	–	–	–	30min

Hold time

Refers to the time period the lamp remains at 100% illumination after no motion detected.

ON		7	8	9	
	I	ON	ON	ON	2lux
	II	ON	ON	–	10lux
	III	–	ON	–	25lux
	IV	ON	–	–	50lux
	V	–	–	–	Disable

Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.
50lux, 25lux: twilight operation, 10lux, 2lux: darkness operation only.