

MOS Series Technical Specification Sheet

### Part No. MOS Integral Microwave Sensor On/Off



# Introduction

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MOS 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.

#### Features:

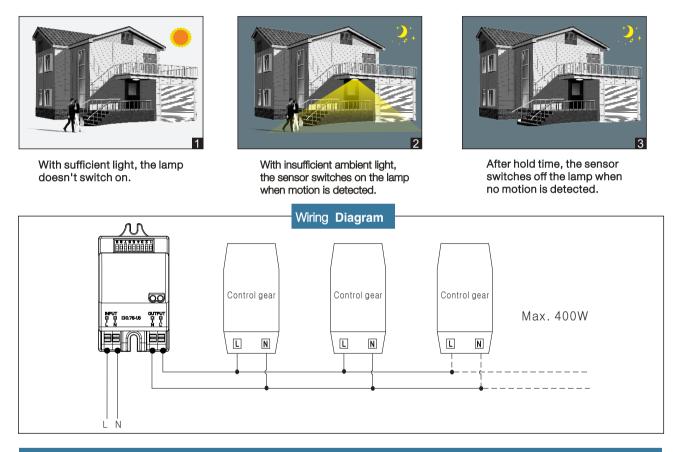
- Automatic switching based on motion and light level.
- Zero-crossing point operation helps protect the sensor against in-rush current.
- Super Compact size makes it suitable to fix within most luminaires.
- 4-pole press-in terminal (L, N, N, L'), easy assembly.
- Detection area, time delay and daylight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



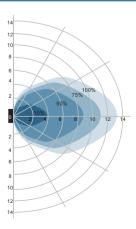
# **ON -OFF Configuration**

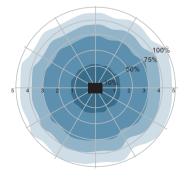
#### On/Off Configuration

MOS 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.



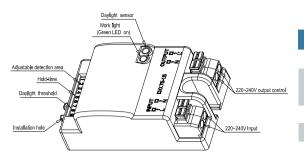
# **Detection Pattern**

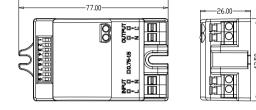




Wall mounting pattern (Unit: m) Suggested installation height: 1.5m Ceiling mounting pattern (Unit: m) Suggested installation height: 3m







	MOS Mechanical Specification					
	Operating voltage	120~277Vac, 50Hz				
Rated load		400W@220V-277VAC 200W@120VAC(inductive);				
		800W@220V-277VAC 400W@ 120VAC(resistive)				
	HF system	5.8GHz±75MHz, ISM wave band				
	Transmitting power	<0.5mW				
	Power consumption	≤0.5W(standby)				
	Detection zone	Max.(D x H): 10m x 6m				
	Detection sensitivity	10% / 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°C ~60°C				
	IP rating	IP20				

### Sensor Settings

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

		1	2	
ON	Ι	ON	ON	100%
1	Π	-	ON	75%
	III	ON	-	50%
	IV	-	-	10%

# Detection area

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

		3	4	5	
~ ~ ~	Ι	ON	ON	ON	5s
ON ₫	Π	-	ON	ON	30s
	III	ON	-	ON	90s
	IV	-	-	ON	3min
	V	ON	ON	-	20min
	VI	-	_	_	30min

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

		6	7	8	
ON	Ι	ON	ON	ON	2lux
1	Π	ON	ON	-	10lux
	III	-	ON	-	25lux
	IV	ON	-	_	50lux
	V	-	-	-	Disable

# ON I ON Constant ON II − Sensor

# 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.

# Mode

When set to "Constant ON", the microwave sensor function is inactive, lights turns on or off by switch.

When set to Sensor, the microwave sensor function is active.