

### MICROWAVE MOTION SENSOR USER'S MANUAL

Model No.: LEV71916



## **Specification**

	I		
Input	Operating Voltage	108-305V AC 50/60Hz	
	DC Input Voltage	N/A	
	Rated Voltage	120/277V AC 50/60Hz	
mpat	No-load Power	N/A	
	Stand-by Power	≤1W	
	Surge Test	LN: 1kV	
	Working Mode	ON/OFF function, 1-10V step dimming	
	Type of Load	Inductive or resistive Load	
	Load Capacity	2A @120Vac ,3A@277Vac, 3A@220-240Vac	
Output	Current of Load	N/A	
	Max. Surge Capacity	30A (50%Ipeak,twidth =500uS, 230Vac full load, cold start); 60A (50% Ipeak,twidth=200uS, 230Vac, full load, cold start)	
	1-10V Dimming	1-10Vdimming 20mA Max (Passive 1-10V port)	
	Synchronous Control	N/A	
Dim Interface	High Low-level	N/A	
	PWM Control	N/A	
	Interface terminal wiring	N/A	
Sensor	Operating Frequency 5.8 GHz ±75 MHz, ISM Band.		
Parameters	Transmitting power	0.5mW Max.	

# Factory default setting:

Detection area: 100%, Hold Time: 5S, Stand-by Period: 0S, Stand-by dim level:10%, Daylight Sensor: Disable



V2\_May\_2022\_RS

	Hold time	5S/30S/1min/3min/20min/30min	
	Tiold time	5s/30s/1min/3min/5min/10min/20min/30min(remote control)	
	Stand-by DIM Level	$10\%(1.4\pm0.3\text{V})/20\%(2.5\pm0.5\text{V})/50\%(5.\pm1\text{V}) \text{ (Only DIP Switch)}$	
	Stand-by Period	0S/5S/5min/10min/30min/1h/+∞	
Stand-by Feriod		0s/10s/1min/3min/5min/10min/30min/+∞ (Remote control)	
	Detection Area	100%/75%/50%/10%	
	Detection Area	100%/75%/50%/25% (Remote control)	
		5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable ( Ambient light	
	Daylight Sensor	diffusion)	
	Daylight Sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable (Remote	
		control)	
	Light control on/off	N/A	
	Detecting Radius	See detection pattern	
	Mounting Height	12m Max	
	Detecting Angle	150°	
Operating	Operating Temperature	-25℃+60℃	
Environment	Storage Temperature	Temperature:-40°C+80°C;	
Liivii oiiiiiciit	Storage remperature	Humidity:10%-95% (non-condensing)	
	Safety standards	EN61058-1, UL60703-1	
		EN300440; EN301489-1; EN55015; EN61547;	
Certificate	EMC standards	EN61000-3-2; EN61000-3-3; EN62479	
Standards	Environmental Requirement	Compliant to RoHS	
	Certificate	CE, RED,UL,FCC	
	Input/output terminal specifications	Push-type terminal block; wire diameter: 0.75-1.5mm2	
	IP Rating	IP20	
	Protection Class	Class II	
Others	Installation	Built-in installation	
	Dimension	93.5*45*28.5mm	
	Package	Bubble bag + partition + outer box (K=A)	
	Net Weight	61.2G	
	Lifetime	50,000h @ Ta Full load	

### Note

- 1. "N/A" means not available.
- 2. Detection area is effected on volume of motion object and motion speed. The detection area is tested by a 165cm height person and walking speed is 0.5m/s.

# **Commissioning:**

1/ On/Off function /3-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

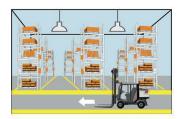
2/ 2-step dimming function:

After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it dims the light to a low light level (set by stand-by dim level). During the initialization, the sensor is not able to detect movement.

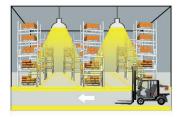


## Operation

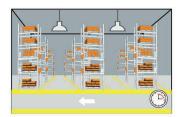
1) On/OFF Function (stand-by period to be set to "0"s)



With sufficient ambient light, the light will not be switched on even if with motion signal.

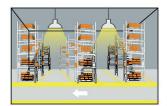


With insufficient ambient light, the sensor switches on the light when motion is detected.

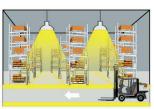


After elapse of hold time, the sensor switches off the light when no motion is detected.

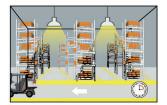
2) 2-step dimming function (stand-by period be set to "+∞")



If there is no motion detected, the light will be remained at a low light level all the time.

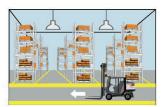


When motion is detected, the sensor will switch on the light to 100% brighteness

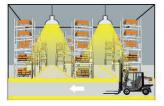


After elapse of hold time, the sensor dims the light at the present low light level if no motion is detected.

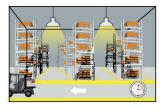
3) 3-step dimming function (stand-by period be set to "10s/1min/3min/5min/10min/30min")



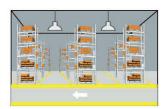
With sufficient ambient light, the light will not be switched on even if with motion signal.



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



3 After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.



After elapse of standby period, the sensor switches off the light if no motion is detected in the detection zone.

# **DIP Setting**

### 1) Detection Area

	1	2	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	10%

#### 2) Hold Time

	3	4	5	
I	ON	ON	ON	5s
II	-	ON	ON	30s
III	ON	-	ON	1min
IV	-	-	ON	3min
V	ON	ON	-	20min
VI	-	-	-	30min

### 3) Stand-by Period

	6	7	8	
I	ON	ON	ON	0s
II	-	ON	ON	5s
III	ON	-	ON	5min
IV	-	-	ON	10min
V	ON	ON	-	30min
VI	-	ON	-	60min
VII	_	-	-	+∞

### 4) Daylight Sensor

	1	2	3	4	5	
I	ON	ON	ON	ON	ON	5lux
II	-	ON	ON	ON	ON	15lux
III	ON	1	ON	ON	ON	30lux
IV	ON	ON	-	ON	ON	50lux
V	ON	ON	ON	-	ON	100lux
VI	ON	ON	ON	ON	-	150lux
VII	-	1	-	-	-	Disable*

### 5) Detection mode

	6	
I	ON	HS

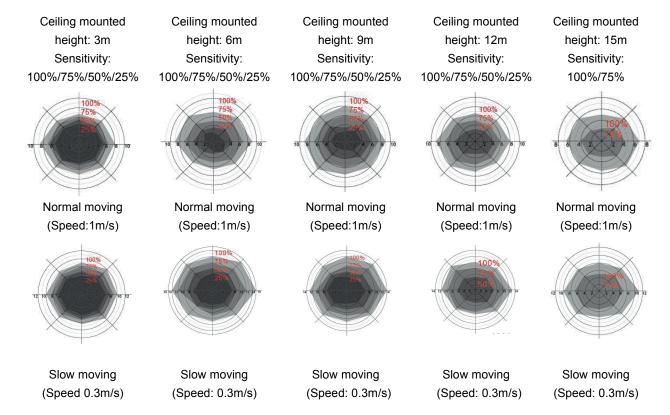
### 6)Stand-by dim Level

	1	2	
I	-	ON	50%
II	ON	-	20%
III	ı	-	10%

LS

#### 8. Detection Pattern

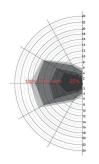
#### **Ceiling mounting**



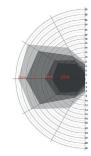
\*Only 100%/75%/50% detection sensitivity is workable when installed at 10m & 15m mounting height. 25% sensitivity is not able to detect motion signal.

#### Wall mounting

Horizon mounted height: 2m Sensitivity: 100%/75%/50%/25%



Normal moving(Sped: 1m/s)



Slow moving (Speed 0.3m/s)