

20-MC613VDRC-MWAVE

MICROWAVE MOTION SENSOR

PROJECT
TYPE
CATALOG #

APPLICATIONS

The 20-MC613VDRC-MWAVE is equipped with microwave detection technology, mounting height as up to 15m and get 18m distance area. Suitable for warehouse applications. Easy to install with High Bay fixtures. The sensor is designed for indoor use. The sensors allow energy saving without compromising comfort. When used in combination with 1-10V dimmable LED drivers or ballasts, they can achieve 3-step dimming function, which is perfect for use in some areas that requires a light change notice before totally switching off.

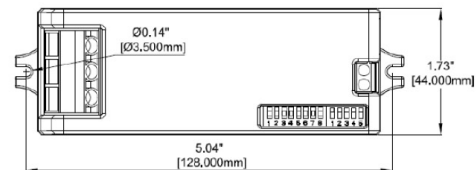
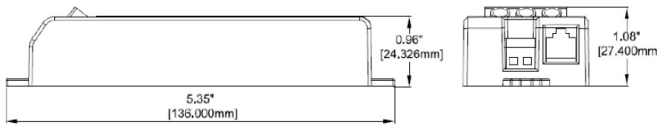
FEATURES

- 120/277/347Vac Input Voltage
- Stand-by Power: <1.0W
- On/Off, 3-step dimming function with detachable sensor
- North American version for linear & batten lights
- Detection Distance: (Diameter*Height: 12m*6m Max.)
- Functions can be set via DIP or infrared remote control MH02, such as detection area, hold time, stand-by level, stand-by dim level etc
- 5-Year Warranty



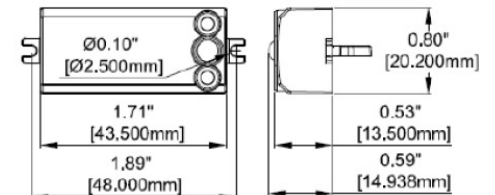
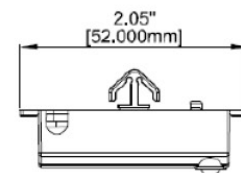
MH02

DIMENSIONS



PRODUCT PARAMETER

Input	Input Voltage Range	108-382VAC
	Rated Input Voltage	120/277/347VAC
	Stand-by Power	<1.0W
	Wiring Method	(Screw type) Push terminal
Output	Operating Mode	ON/OFF 1-10V
	Load Power	3A (Inductive)@120VAC; 3A (Resistive)@277VAC; 3A (Resistive)@347VAC
	1-10V Dimming	< 50mA (Non constant current source)
	Wiring Method	Push terminal
Sensor Parameters	HF Operating frequency	5.8 GHz ±75 MHz, ISM Wave Band
	HF Radiated power	0.5mW Max.
	Detection Area	100%/75%/50%/25% (Remote Control: 100%/75%/50%/25%)
	Hold time	5S/30S/1min/5min/10min/15min/30min (Remote Control: 5S/30S/1min/5min/10min/15min/30min)
	Stand-by Level	0s/1min/3min/5min/10min/30min/+∞ (Remote Control: 0s/1min/3min/5min/10min/30min/+∞)
	Daylight Sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable (Remote Control: 5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable)
	Stand-by Dim Level	10%/20%/30%/40% (Remote Control: 10%/20%/30%/40%)



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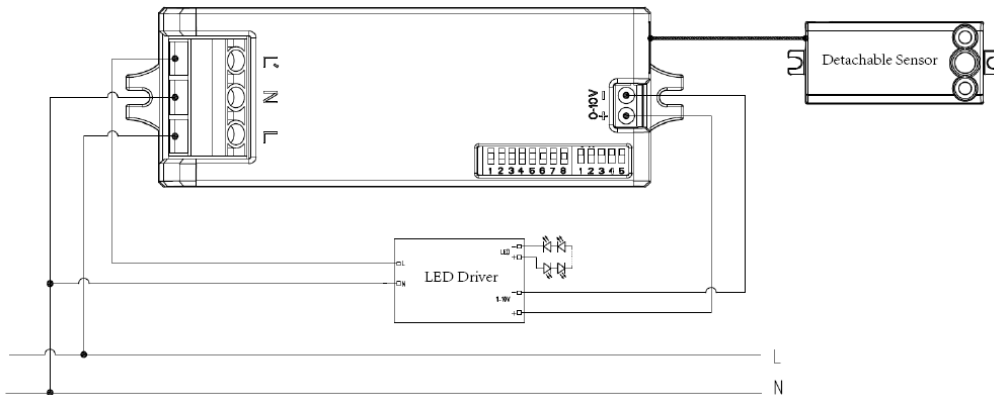
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MICROWAVE MOTION SENSOR

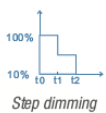
PRODUCT PARAMETER

	Detection Distance (Diameter*Height)	12m*6m (Max.)
	Detection Angel	150° (Wall mounting) , 360° (Ceiling mounting)
Operating Environment	Operating temperature	-35°C~60°C
	Storage temperature	-35°C~80°C
Others	Certificate requirement	UL
	IP rating	IP20
	Protection Class	Class II
	Installation requirement	Built-in
	Outer Size	Inch: 5.354*1.732*0.965 (mm: 136*44*24.5)
	Installation Size	Inch: 5.039 (mm: 128)
	Packaging requirement	Clapboard +Outer Carton (K=A)
	Weight	122.4g
Life	50000Hr	

WIRING DIAGRAM



FUNCTION



3-step dimming function



- With sufficient ambient light, the light will not be switched on.
- With insufficient ambient light, the sensor switches on the light when motion is detected.
- After elapse of hold time, the sensor dims the light at a low light level if no new motion is detected.
- After elapse of stand-by period, the sensor switches off the light if no motion is detected in the detection zone.

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SETTINGS

- Detection Area

	1	2
100%	ON	ON
75%	ON	-
50%	-	ON
25%	-	-

- Hold time

	3	4	5
5S	ON	ON	ON
30S	ON	-	ON
1min	-	ON	ON
5 min	ON	-	-
10min	-	ON	-
15min	-	-	ON
30min	-	-	-

- Stand-by Level

	6	7	8
0s	ON	ON	ON
1min	ON	-	ON
3min	-	ON	ON
5min	ON	-	-
10min	-	ON	-
30min	-	-	ON
+∞	-	-	-

- Stand-by Dim Level

	1	2
10%	ON	ON
20%	ON	-
30%	-	ON
40%	-	-

- Daylight Sensor

	3	4	5	6
5Lux	ON	ON	ON	ON
15Lux	-	ON	ON	ON
30Lux	ON	-	ON	ON
50lux	-	-	ON	ON
100lux	ON	ON	-	ON
150lux	ON	ON	ON	-
Disable	-	-	-	-