

# 12V HF Sensor

## ON-OFF & Dim

### PRODUCT DESCRIPTION

- 12Vdc±1V input, compatible with DC systems & LED drivers
- 0-10V dimming with 2/3-step function
- Patented sensor antenna with dual detection modes (high sensitivity / interference immunity)
- Compact design for industrial lamps, edge or center UFO mounting
- 15m max installation height, ideal for warehouses
- Adjustable-angle patented remote control
- Dim+/Dim- for occupancy light level setting
- 2-year warranty

Item Number: **QRSR-12V-HF-OF-DIM**



### INPUT

Operating Voltage Range	N/A
DC Input Voltage	12Vdc±1V
Rated Voltage	12Vdc±1V
No-load Power	N/A
Stand-by Power	<0.3W
Surge Test	N/A
Wiring	MC079D RC2 A, MC079D RC2 B, 22AWG

### OUTPUT

Working Mode	0-10V DC
Type of Load	N/A
Load Capacity	N/A
Current of Load	N/A
Wiring	MC079D RC2 A, MC079D RC2 B, 22AWG

### DIM INTERFACE

0-10V Dimming	< 50mA (Non-constant source)
Synchronous Control	N/A
High Low-level	N/A
PWM Control	N/A

### SENSOR PARAMETERS

Stand-by DIM Level	10%(1.4-1.6V), 20%(1.9-2.1V), 30%(2.9-3.1V), 50% (4.9-5.1V)
Stand-by Period	0s/10S/1min/3min/5min/10min/30min/+
Detection Area	25%/50%/75%/100%
Daylight Sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable
Detecting Radius	See detection pattern
Mounting Height	15m Max
Detecting Angle	150°(wall mounting), 360°(ceiling mounting)

### WIRELESS MODULE

Operating Frequency	N/A
Transmitting power	N/A
Transmitting distance	N/A
Modulation mode	N/A
Number of coding	N/A

## CERTIFICATE STANDARDS

Safety standards	EN60669-2-1, EN60669-1
EMC standards	EN55015, EN61547, EN61000-3-2, EN61000-3-3
Requirement	Compliant to RoHS
Certificate	CE

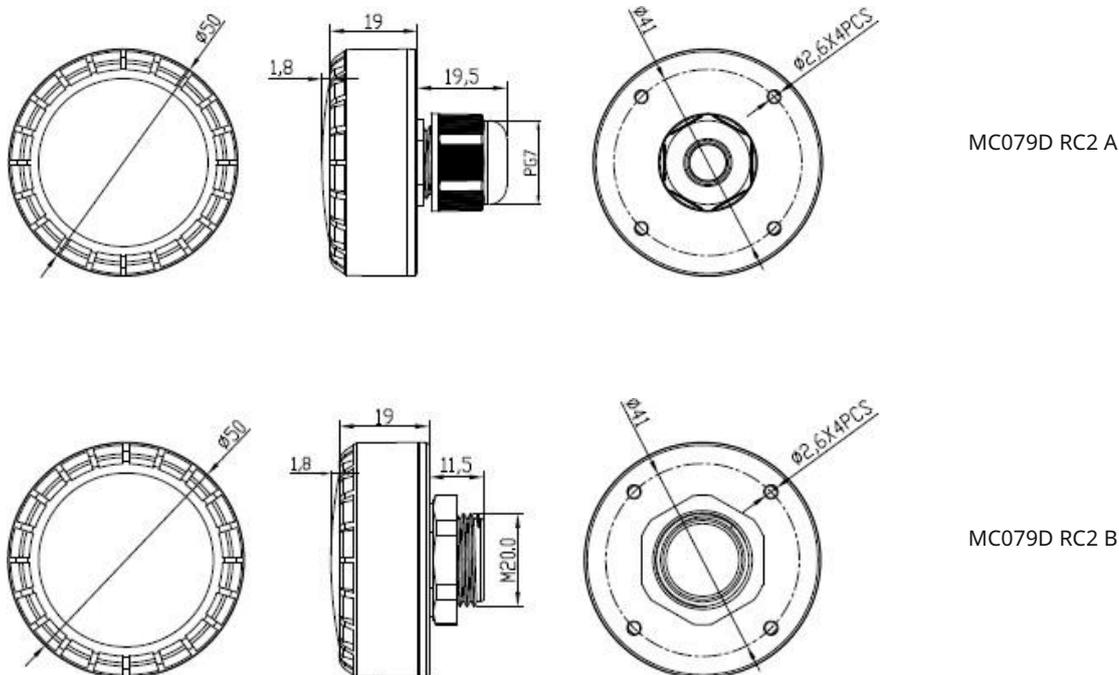
## OTHER

Wiring	UL21996,3*22AWG, Cable length: 300mm (pending)
IP Rating	IP65 (MC079D RC2 A), IP20 (MC079D RC2 B)
Protection Class	Class II
Installation	External mounting, Integrated mounting
Dimension	See dimension
Package	White paper box
Net Weight	55g
Warranty	2 years warranty

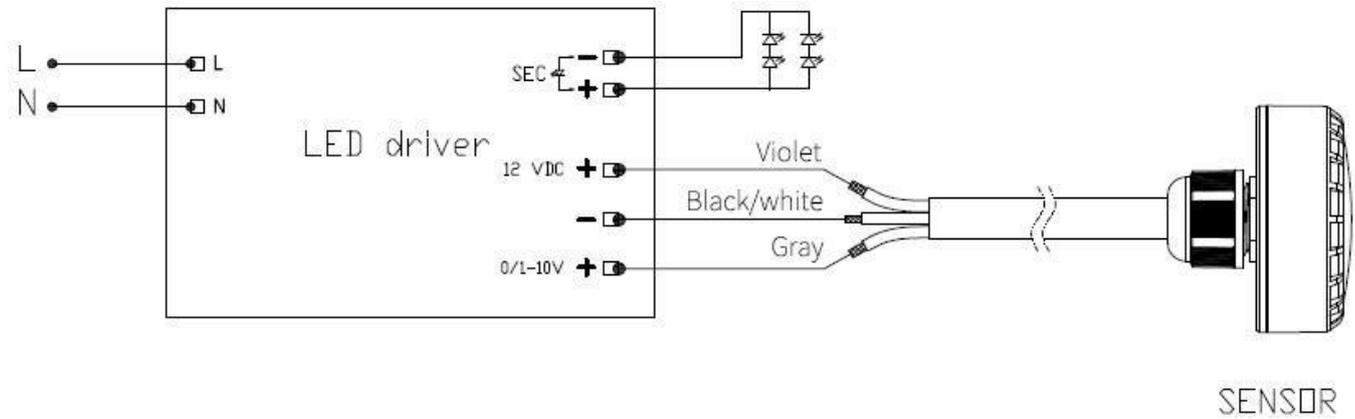
## NOTE

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.

## DIMENSION DRAWING

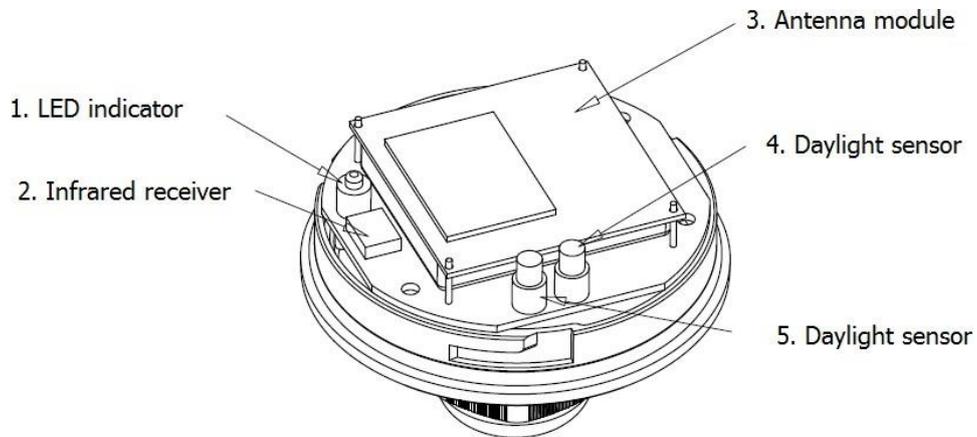


## WIRING



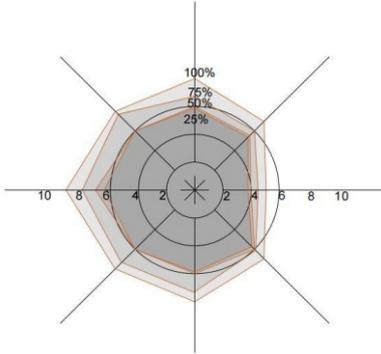
\*The sensor is designed for connect one load only. Connect more than one loads may damage the sensor.

## STRUCTURE

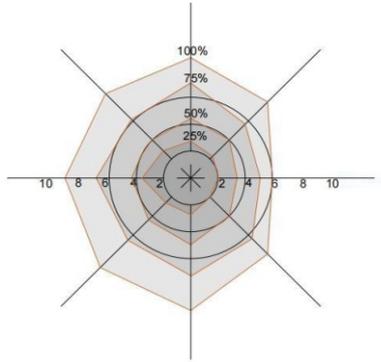


## RADIATION PATTERN (CEILING MOUNTING)

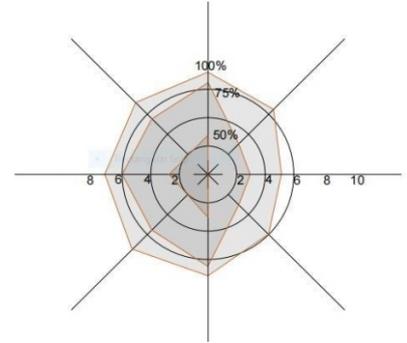
Ceiling mounted height:  
3m Sensitivity: 100%/75%/50%/25%  
Normal moving (Speed:1m/s)



Ceiling mounted height:  
12m Sensitivity: 100%/75%/50%/25%  
Normal moving (Speed:1m/s)

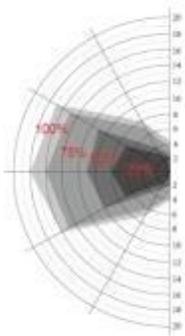


Ceiling mounted height: 15m (\*)  
Sensitivity: 100%/75%/50%  
Normal moving (Speed:1m/s)



## WALL MOUNTING

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



Normal moving (Speed: 1m/s)