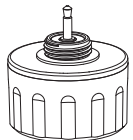
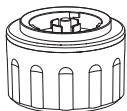


High Mounted Sensor User's Manual



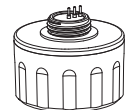
MC079D 99 DI



MC079D 99 Z



MC079D 99 Z10



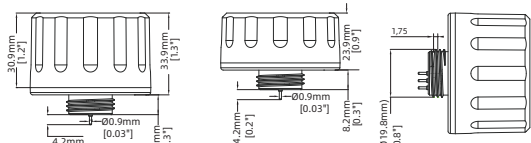
MC079D 99 A



Instruction
MI250422A0

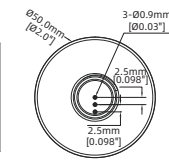
DIMENSION(mm)

MC079D 99 A



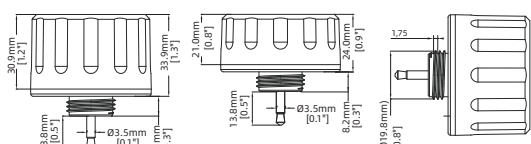
Mounting height: 15m(49.2ft)

Mounting height: 12m(39.3ft)



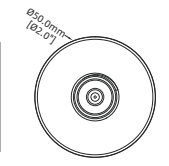
Note: Pin distance for part of products is 3.0mm (0.1\"/>

MC079D 99 DI

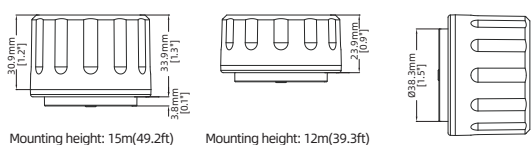


Mounting height: 15m(49.2ft)

Mounting height: 12m(39.3ft)

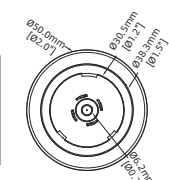


MC079D 99 Z

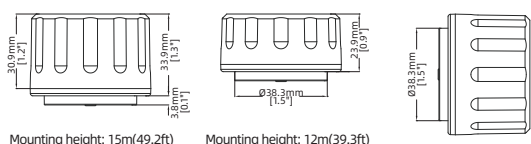


Mounting height: 15m(49.2ft)

Mounting height: 12m(39.3ft)

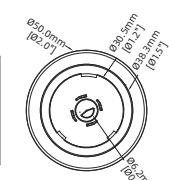


MC079D 99 Z10



Mounting height: 15m(49.2ft)

Mounting height: 12m(39.3ft)

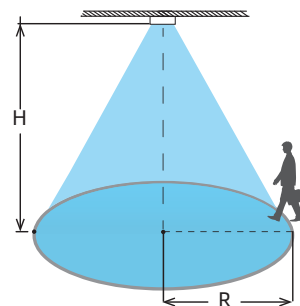


SPECIFICATIONS

Model	MC079D 99 DI	MC079D 99 Z	MC079D 99 Z10	MC079D 99 A
Interface	Earphone	zhaga book18	Zhaga Z10	Thimble
Rated voltage	12±1Vdc			
Rated current	<30mA			
Working mode	0-10VDC dimming signal			
Transmitting Power	3mW Max.			
Detection mode	Microwave doppler radar			
Operating frequency	5.8GHz±75MHz, ISM band			
Daylight sensor	5lux/15Lux/30Lux/50Lux/100lux/150lux/Disable			
Daylight harvesting (see note 1)	200Lux/300Lux/400Lux/500Lux/600Lux/700Lux			
Daylight priority (see note 1)	ON	5Lux/15Lux/30Lux/50Lux	100Lux	150Lux
	OFF	150Lux	200Lux	300Lux
Stand-by DIM Level	10%/20%/30%/50%			
Detection area	≥9.84ft(3m) @ceiling mounting height 32.8ft (10m)			
Mounting height	19.7ft-49.2ft(6m-15m), typical 39.3ft (12m)			
Operating temperature	-35°C~+60°C			
Storage temperature	-40°C~80°C, humidity ≤85% (non-condensing)			
IP Rating	IP65 (INDOOR USE ONLY)			
Installation requirements	Plug in installation			
Warranty	5 years warranty @Ta, indoor use only			

Note 1: Daylight priority or daylight harvesting function is not included in all models, which only can be required by customer before leaving factory.

DETECTION AREA

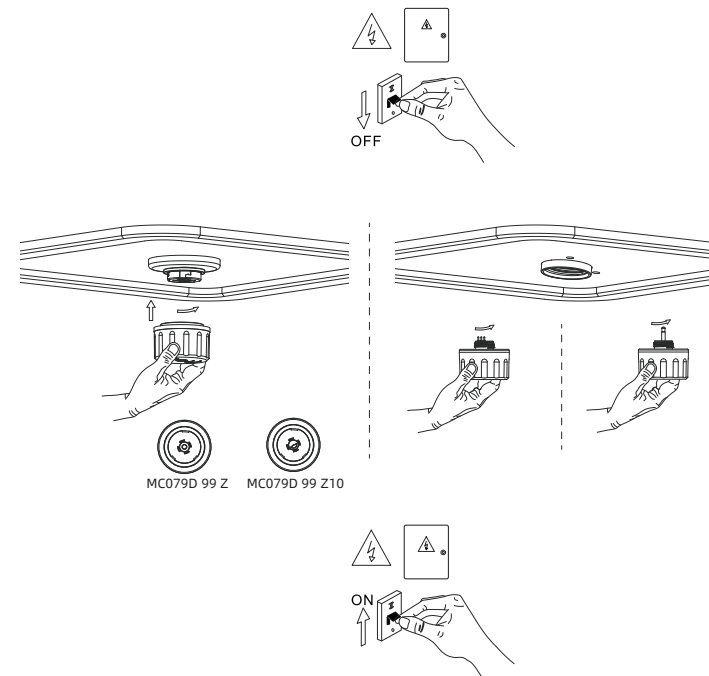


Detection sensitivity	Detection area (R)			
	100%	75%	50%	25%
Mounting height (H)				
6m(19.6ft)	≥5m(16.4ft)	≥3.5m(11.4ft)	≥2m(6.5ft)	≥1m(3.2ft)
8m(26.2ft)	≥6m(19.6ft)	≥4m(13.1ft)	≥3m(9.8ft)	≥2m(6.5ft)
10m(32.8ft)	≥6m(19.6ft)	≥4m(13.1ft)	≥3m(9.8ft)	No detection
12m(39.3ft)	≥6m(19.6ft)	≥4m(13.1ft)	≥3m(9.8ft)	No detection
15m(49.2ft)	≥5m(16.4ft)	≥3.5m(11.4ft)	No detection	No detection

INITIALIZATION

- On/Off function/3-Step dimming function: the sensor turns on the light at 100% brightness, and will be turned off after 10 seconds. During initialization, the sensor is not able to detect movement.
- 2-Step dimming function: the sensor turns on the light at 100% brightness. After 10 seconds, it dims the light to low light level (the brightness set by stand-by dim level). During initialization, the sensor is not able to detect the movement.

INSTALLATION



CAUTION

- The installation work, maintaining work and electrical wiring etc., and these must be done by qualified person(s), or the equivalent.
- Please refer to wire diagram before wiring, cut off power before wiring.



APPLICATION NOTICE

- Sensor should be installed by a professional electrician. Please turn off power before installing or wiring.
- The distance is related to factors such as the moving speed of the moving object, the size of the moving object, the installation height, the installation angle, whether the installation environment is open, and the material of the reflector. The detection distance given in the specification is a typical value, it is 165cm/65kg people who walks in an open indoor environment.
- The daylight threshold is in a sunny environment, no shadows, and ambient light diffuse reflection conditions. In different periods, climates, and environments, the daylight value detected by the light sensor may be different.
- Sensor parameters may need to be reconfigured in different installation environments, please refer to the following instructions or contact the manufacturer.
- This sensor is only for indoor use, outdoor use may be false triggered by wind and rain, and surrounding moving objects.
- The installation height of the sensor product cannot exceed 15(49.2ft) meters, and the suitable height is 10(32.8ft) meters; the distance between the two sensors should be greater than 3(9.8ft) meters.
- When the sensor is installed in a metal lamp, on a metal reflective surface, or in a narrow closed environment, the microwaves will be reflected multiple times and cause false triggering. Please reduce the sensor sensitivity or contact the manufacturer for technical support.
- Sensor is compatible with different 0-10V driver but dimming effect will be different.
- DC regulated power supply with stable output voltage and low ripple coefficient must be used. The ripple of the power supply should be less than 100mV; the load current should be greater than 100 mA.

Remote Control Setting	Function	Button	Remarks																											
	Reset		Short press to reset the sensor, and light flash once, restoring the sensor parameters to the default factory settings																											
	Parameters & configuration		Set the corresponding parameters according to the icons, and the light will flash once upon successful setup (see Figure 1 for more details). <table border="1"> <thead> <tr> <th>Icons</th> <th>Parameter Items</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td></td> <td>Detection Sensitivity</td> <td>25%/50%/75%/100%</td> </tr> <tr> <td></td> <td>Stand-by Dim Level</td> <td>10%/20%/30%/50%</td> </tr> <tr> <td></td> <td>Hold Time</td> <td>5s/30s/1min/3min/5min/10min/20min/30min</td> </tr> <tr> <td></td> <td>Stand-by Period</td> <td>0s/10s/1min/3min/5min/10min/30min/+∞ (+∞: stand-by period +∞)</td> </tr> <tr> <td></td> <td>Daylight Sensor</td> <td>5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable (Disable: daylight sensor disable)</td> </tr> </tbody> </table>	Icons	Parameter Items	Options		Detection Sensitivity	25%/50%/75%/100%		Stand-by Dim Level	10%/20%/30%/50%		Hold Time	5s/30s/1min/3min/5min/10min/20min/30min		Stand-by Period	0s/10s/1min/3min/5min/10min/30min/+∞ (+∞: stand-by period +∞)		Daylight Sensor	5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable (Disable: daylight sensor disable)									
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		Daylight Sensor	5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/Disable (Disable: daylight sensor disable)																											
	Enable high/ low sensitivity mode		Short press “LS” to enable Low Sensitivity Mode, the lamp will flash once upon successful setup. This mode can be applied in highly reflective environments where the sensor is unable to turn off the light. Short press “HS” to enable High Sensitivity Mode, the lamp will flash once upon successful setup.																											
	Enable daylight priority mode		Long press to enable Daylight Priority Mode, the lamp will be turned on when the lux level is below pre-set turn-on value and turned off when lux level exceeds the pre-set turn-off value (see Figure 2). <table border="1"> <thead> <tr> <th>Options</th> <th>Light ON below</th> <th>Light OFF exceeds</th> </tr> </thead> <tbody> <tr> <td>5Lux/15Lux/30Lux/50Lux</td> <td>5Lux/15Lux/30Lux/50Lux</td> <td>150Lux</td> </tr> <tr> <td>100lux</td> <td>100lux</td> <td>200Lux</td> </tr> <tr> <td>150lux</td> <td>150lux</td> <td>300Lux</td> </tr> </tbody> </table> <p>Note: Daylight priority is not available for sensors with 12m Max. mounted height version.</p>	Options	Light ON below	Light OFF exceeds	5Lux/15Lux/30Lux/50Lux	5Lux/15Lux/30Lux/50Lux	150Lux	100lux	100lux	200Lux	150lux	150lux	300Lux															
	Options	Light ON below	Light OFF exceeds																											
	5Lux/15Lux/30Lux/50Lux	5Lux/15Lux/30Lux/50Lux	150Lux																											
	100lux	100lux	200Lux																											
	150lux	150lux	300Lux																											
Override daylight priority mode		Press to override daylight priority mode, and sensor parameters will be the last configured settings.																												
Quick setting		Short press QS1, QS2, or QS3 (QS: Quick Setting) to quick set multiple parameters of the light (as shown in the table below). The light will flash once upon successful setup. <table border="1"> <thead> <tr> <th>Quick Setting</th> <th>Detection Area</th> <th>Hold Time</th> <th>Stand-by period</th> <th>Stand-by dim level</th> <th>Daylight Sensor</th> <th>High/ Low sensitivity</th> </tr> </thead> <tbody> <tr> <td>QS1</td> <td>100%</td> <td>5min</td> <td>10min</td> <td>10%</td> <td>30Lux</td> <td>HS (High sensitivity)</td> </tr> <tr> <td>QS2</td> <td>100%</td> <td>10min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS (High sensitivity)</td> </tr> <tr> <td>QS3</td> <td>100%</td> <td>20min</td> <td>30min</td> <td>10%</td> <td>Disable</td> <td>HS (High sensitivity)</td> </tr> </tbody> </table>	Quick Setting	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor	High/ Low sensitivity	QS1	100%	5min	10min	10%	30Lux	HS (High sensitivity)	QS2	100%	10min	30min	10%	Disable	HS (High sensitivity)	QS3	100%	20min	30min	10%	Disable	HS (High sensitivity)
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QS2	100%	10min	30min	10%	Disable	HS (High sensitivity)																								
QS3	100%	20min	30min	10%	Disable	HS (High sensitivity)																								
Dim level		Short press to increase the dim level (see Figure 1) by 2% each time. Long press to continuously increase the brightness. Short press to decrease dim level by 2% each time. Long press to continuously decrease the brightness, with a minimum brightness of 50% (The minimum brightness of some products can be adjusted to 15%. Please refer to the actual product for specific details.)																												
Disable sensor mode/ light permanently on/ off		Short press to turn off the sensor function. The light can be controlled to stay permanently on or off. In permanently on mode, the light stays permanently on after reconnecting power. And in permanently off mode, the light turns on for 2 seconds and then stay off after reconnecting power.																												
Enable sensor mode		Short press to restore the sensor function. The light will flash once after successful setting, and sensor parameters will be the last configured settings.																												
Factory test mode		Press to enter Factory Test Mode. The light will flash once upon successful setting <table border="1"> <thead> <tr> <th>Detection Area</th> <th>Hold Time</th> <th>Stand-by Period</th> <th>Stand-by Dim Level</th> <th>Daylight Sensor</th> </tr> </thead> <tbody> <tr> <td>100%</td> <td>2S</td> <td>0S</td> <td>N/A</td> <td>Disable</td> </tr> </tbody> </table>	Detection Area	Hold Time	Stand-by Period	Stand-by Dim Level	Daylight Sensor	100%	2S	0S	N/A	Disable																		
Detection Area	Hold Time	Stand-by Period	Stand-by Dim Level	Daylight Sensor																										
100%	2S	0S	N/A	Disable																										
Dim test		Short press this button, and the light will automatically dim and return to trigger brightness. This button can be used to check if the dimming function of the light is working properly.																												
Remote distance		Toggle button to set the remote distance of the remote control. For example, it can be set to 15m for warehouses.																												

Fig.1

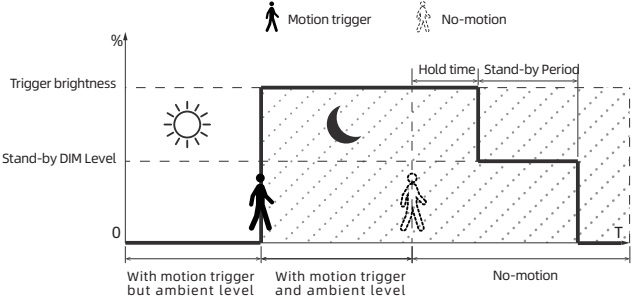
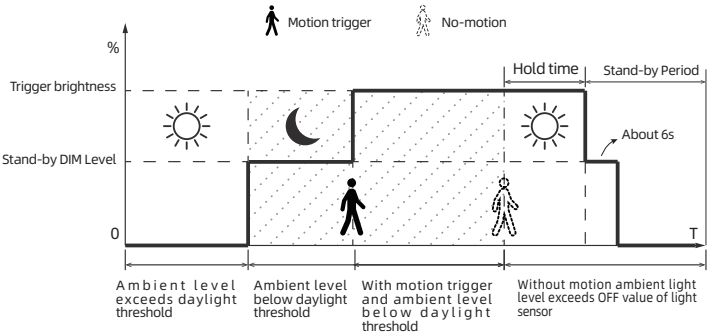


Fig.2

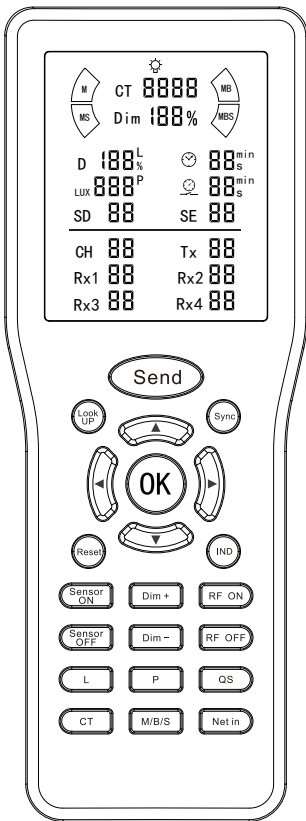


Remote Control Setting

Function

Button

Remarks



Screen wake-up		Short press to wake the screen when off																												
One-click transmission of all parameters	Send	Short press to transmit the parameters displayed on the screen. The transmission will take 3-5 seconds, during this period, make sure the remote control is aimed at the sensor. The lamp will flash once if transmit successfully.																												
Transmit a single parameter	OK	Short press to transmit the flashing parameter on the screen, and the light will flash once after successful transmission																												
Parameters & configuration	[Navigation Buttons]	Press “Δ” button to select parameter items, and press “\leftarrow” to choose desired gear or value. 1. General parameters (see Figure 1)																												
		<table border="1"> <thead> <tr> <th>Icons</th> <th>Parameter Items</th> <th>Options</th> </tr> </thead> <tbody> <tr> <td>D</td> <td>Detection Sensitivity</td> <td>100%/75%/50%/25%</td> </tr> <tr> <td>LUX</td> <td>Daylight Sensor</td> <td>5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/999(daylight sensor disable)</td> </tr> <tr> <td>SD</td> <td>Stand-by Dim Level</td> <td>15%/20%/30%/50%</td> </tr> <tr> <td>[Clock Icon]</td> <td>Hold time</td> <td>5s/30s/1min/3min/5min/10min/20min/30min</td> </tr> <tr> <td>[Stand-by Icon]</td> <td>Stand-by Period</td> <td>0s/10s/1min/3min/5min/10min/30min/99(99:stand-by period=∞)</td> </tr> </tbody> </table> <p>2. Other parameters</p> <table border="1"> <thead> <tr> <th>Icons</th> <th>Tx</th> <th>Rx1 Rx3</th> <th>Rx2 Rx4</th> <th>SE</th> <th>CH</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>Not applicable</p>	Icons	Parameter Items	Options	D	Detection Sensitivity	100%/75%/50%/25%	LUX	Daylight Sensor	5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/999(daylight sensor disable)	SD	Stand-by Dim Level	15%/20%/30%/50%	[Clock Icon]	Hold time	5s/30s/1min/3min/5min/10min/20min/30min	[Stand-by Icon]	Stand-by Period	0s/10s/1min/3min/5min/10min/30min/99(99:stand-by period=∞)	Icons	Tx	Rx1 Rx3	Rx2 Rx4	SE	CH				
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Icons	Tx	Rx1 Rx3	Rx2 Rx4	SE	CH																									
Enable low sensitivity mode	L	Short press to enable low sensitivity mode for a single product, the screen will display “L” and the lamp will flash once after successful setting. This mode can be applied in highly reflective environments where the sensor is unable to turn off the light																												
Enable daylight priority	P	Short press and the screen display “P” to enable daylight priority mode, the lamp flashes once after successful setting. The lamp will be turned on when the lux level is below pre-set turn on value and turned off when lux level exceeds the pre-set turn off value(see Figure 2). Short press “P” to quit daylight priority mode. The lamp flashes 1 time. “P” will not displayed on the screen.																												
Dim level	Dim +	Short press [Dim+] to increase the dim level by 2% each time. Long press to continuously increase the brightness.																												
	Dim -	Short press [Dim-] to decrease dim level by 2% each time. Long press to continuously decrease the brightness, with a minimum brightness of 50%(Some of version can dim to 15%, please refer to the actual product).																												
Quick setting	QS	Long press to save parameters displayed on the screen to the QS (Quick Setting) mode. When need to quickly set parameters for a single lamp, briefly press this button to recall the stored parameters, then short press [Send] to quickly configure each parameter, the light will flash once after successful setting.																												
Disable sensor mode/ light normally OFF	Sensor OFF	Short press to turn off the sensor function. The light will flash once after successful setting. If multiple products are in the same group, briefly press to turn off the sensor function for all products in the same group. Long press to turn off the light, which can be controlled to permanently OFF. If there are several lights in the same group, all lights will be OFF.																												
Enable sensor mode/light normally ON	Sensor ON	Short press to restore the sensor function. The light will flash once after successful setting, and sensor parameters will be the last configured settings. If multiple products are in the same group, briefly press to turn on the sensor function for all products in the same group. Long press to turn ON the light, which can be controlled to permanently ON. If there are several lights in the same group, all lights will be ON.																												
Reset	Reset	Briefly press to reset the sensor, and light flash once, restoring the sensor parameters to the default factory settings.																												
Turn the screen backlight on/off	IND	Long press to turn the screen backlight on/off. Short press to turn the sensor indicator on/off (if available).																												

Enable wireless settings options/ wireless networking function	RF ON	Not applicable
Disable wireless settings options/ wireless networking function	RF OFF	
Look up	[Up]	
Synchronize	[Sync]	
Network pairing	Net in	
Color temperature control	CT	
Switch sensor mode	M/B/S	

Fig.1

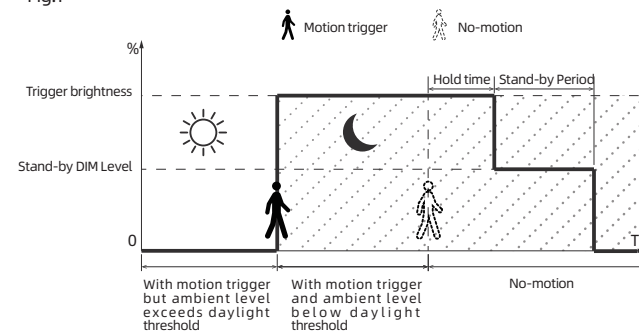


Fig.2

