

North American Products

MC602S



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MC610V RC/
MC611V RC



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MC612V D RC



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MC613V D RC



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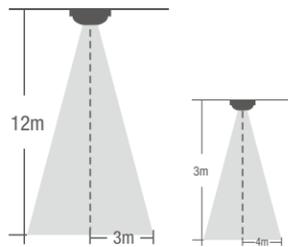


MC602S ON-OFF Function / Enhanced Detection Zone

MC603S ON-OFF Function / Economical Version



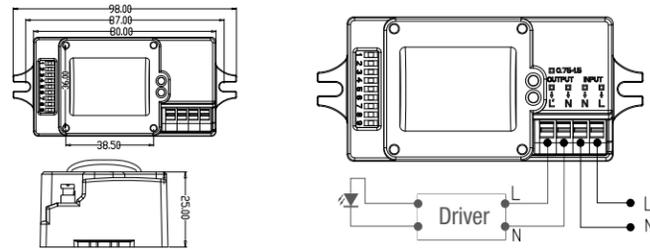
Detection Pattern (max / min)



Detection area*

100%	3m	4m
75 %	2m	2.5m
50 %	1m	2m
25%	0.5m	1m

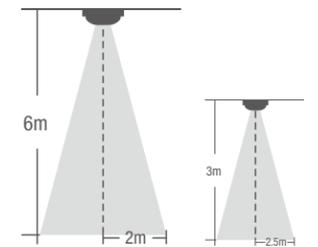
*These data were tested by a 165cm height person and his walking speed is 1m/s.



SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	200W@120Vac 400W@277Vac (ballast) 400W@120Vac 800W@277Vac(resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	8m Max.
Max. Mounting height	12m
Hold time	5s/30s/90s/3min/20min/30min
Stand-by Period	N/A
Stand-by DIM Level	N/A
Daylight sensor	5lux/15lux/30lux/50lux/100lux/Disable
Operating temperature	-35°C ~ 70°C
IP rating	IP20

Detection Pattern (max / min)



Detection area*

100%	2m	2.5m
75 %	1m	1.5m
50 %	0.5m	1m
10%	0m	0.5m

*These data were tested by a 165cm height person and his walking speed is 1m/s.

SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	200W@120Vac 400W@277Vac (ballast) 400W@120Vac 800W@277Vac(resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	6m Max.
Max. Mounting height	6m
Hold time	5s/30s/90s/3min/20min/30min
Stand-by Period	N/A
Stand-by DIM Level	N/A
Daylight sensor	2lux/10lux/25lux/50lux/ disable
Operating temperature	-25°C ~ 60°C
IP rating	IP20

North American Products

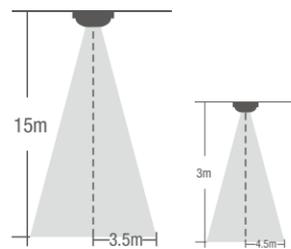
North American Products



MC031V IP65 Microwave Motion Sensor For Warehouse



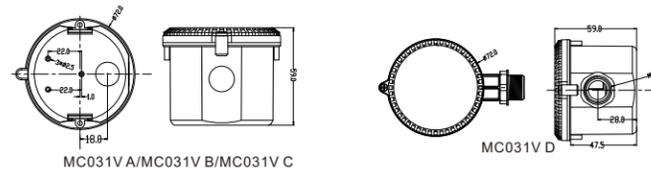
Detection Pattern (max / min)



Detection area*

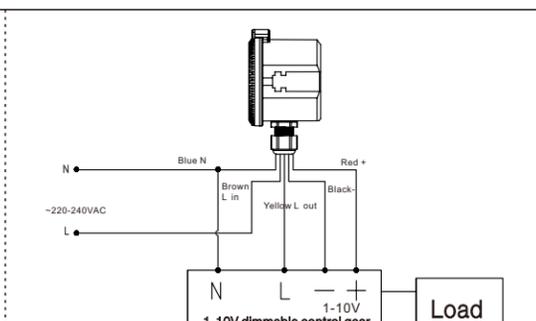
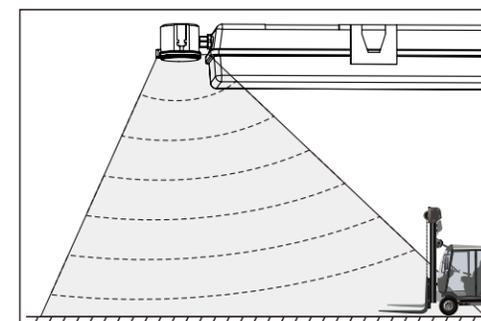
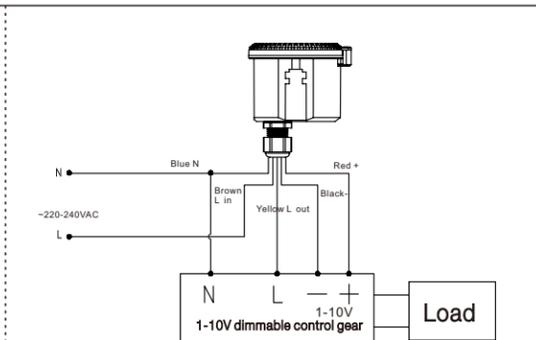
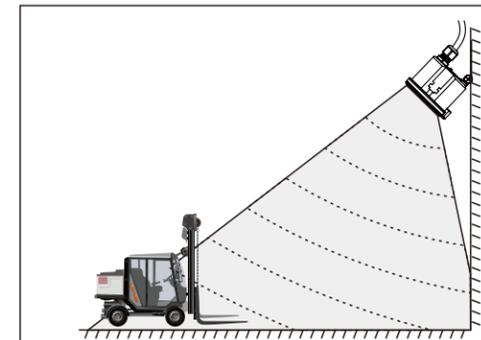
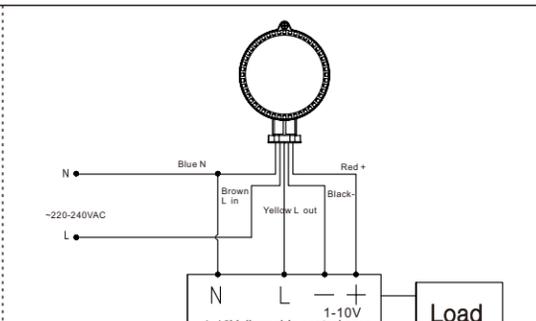
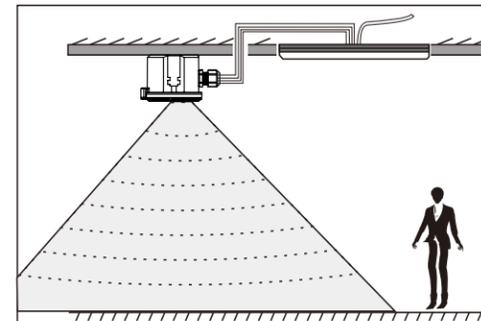
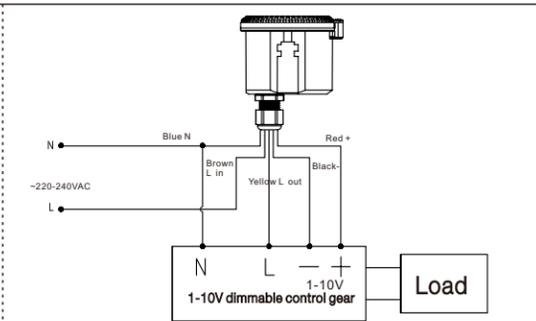
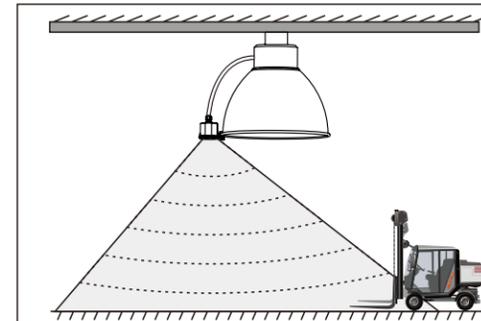
100%	3.5m	4.5m
50%	2m	3m

*These data were tested by a 165cm height person and his walking speed is 1m/s.



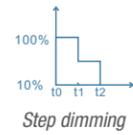
SPECIFICATIONS

Operating voltage	120/277Vac, 50/60Hz
Rated Load	120Vac 4A electronic/magnetic ballast 277Vac 3A electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤ 1W(stand-by)
Detection Area(Radius)	8m
Max. Mounting height	15m
Hold time	5s/30s/90s/3min/20min/30min
Stand-by Period	5s/5min/10min/30min/60min/+∞
Stand-by DIM Level	Sensor: 10%/20%/30%/50%
Daylight sensor	Sensor: 50lux/100lux/200lux/disable
Operating temperature	-35℃ ~ 55℃
IP rating	IP65



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Normal motion detecting



Normal motion detecting



Daylight threshold



Daylight threshold



5 Year Guarantee



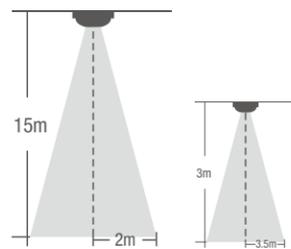
5 Year Guarantee

MC054V RC Dimming Function / Remote Control Microwave Sensor

MC605V/D Dimming Function/ Detachable Version For LED Tri-proof Light & LED Batten



Detection Pattern (max / min)



Detection area*

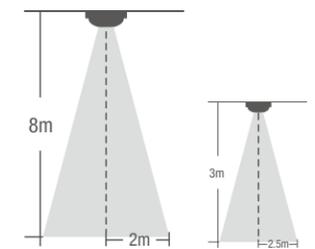
100%	2m	3.5m
50%	1m	2m

*These data were tested by a 165cm height person and his walking speed is 1m/s.

SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	120Vac 4A electronic/magnetic ballast 277Vac 3A electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	<1W(stand-by)
Detection Area(Radius)	8m Max.
Max. Mounting height	15m
Hold time	Sensor:5s/30s/1min/3min/20min/30min Remote control: 5s/30s/1min/3min/5min/10min/20min/30min
Stand-by Period	Sensor:0s/1min/3min/10min/30min/∞ Remote control: 0s/10s/1min/3min/5min/10min/30min/∞
Stand-by DIM Level	Sensor:10%/20%/30%/50%
Daylight sensor	Sensor:5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35°C ~ 55°C
IP rating	IP65

Detection Pattern (max / min)



Detection area*

100%	2m	2.5m
75%	1m	1.5m
50%	0.5m	1m
25%	0m	0.5m

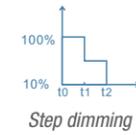
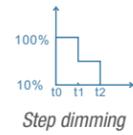
*These data were tested by a 165cm height person and his walking speed is 1m/s.

SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	120Vac: 4A Electronic/magnetic ballast 277Vac: 3A Electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	4m Max.
Max. Mounting height	8m
Hold time	5s/30s/90s/3min/20min/+∞
Stand-by Period	0s/5s/5min/10min/30min/1h/∞
Stand-by DIM Level	10%/20%/30%/50%
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35°C ~ 70°C
IP rating	IP20

North American Products

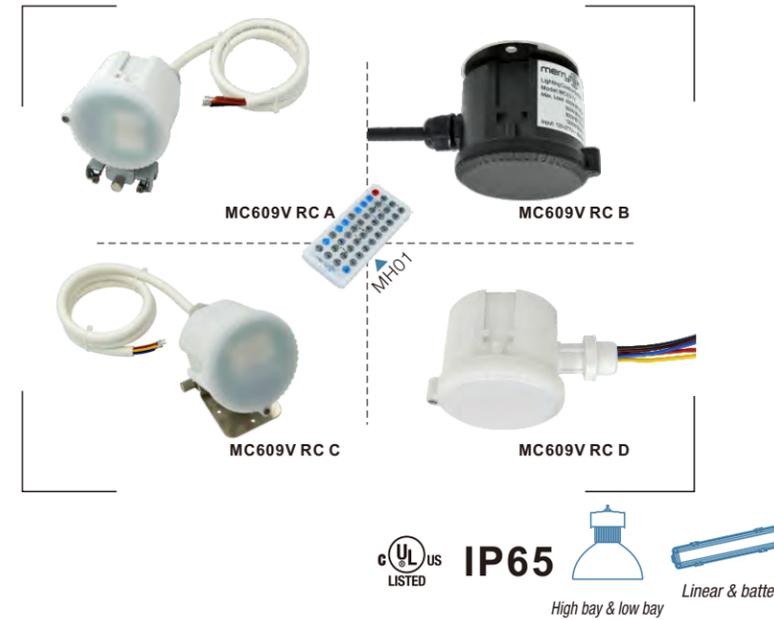
North American Products



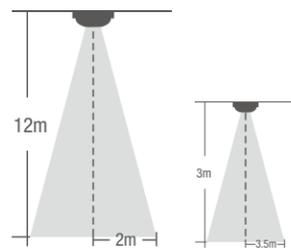
MC601V North American Version / Dimming Function



MC609V RC Dimming Function/ Detachable Version For LED Tri-proof Light & LED Batten



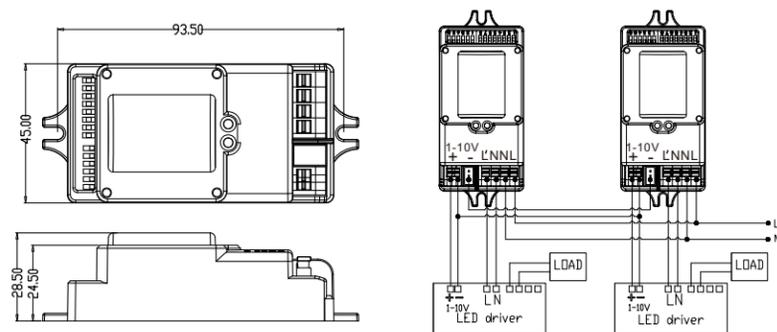
Detection Pattern (max / min)



Detection area*

100%	2m	3.5m
75%	1m	2m
50%	0.5m	1.5m
10%	0m	0.5m

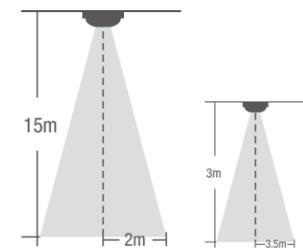
*These data were tested by a 165cm height person and his walking speed is 1m/s.



SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	400W@120Vac(Ballast), 1000W@277Vac(Ballast) 800W@120Vac(Resistive), 1000W@277Vac(Resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	8m Max.
Max. Mounting height	12m
Hold time	5s/30s/90s/3min/20min/+∞
Stand-by Period	0s/5s/5min/10min/30min/1h/disable
Stand-by DIM Level	10%/20%/30%/50%
Daylight sensor	2lux/5lux/10lux/25lux/50lux/100lux/disable
Operating temperature	-35℃ ~ 70℃
IP rating	IP20

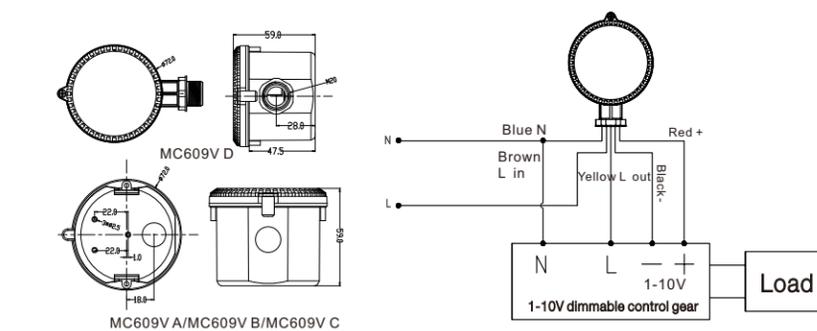
Detection Pattern (max / min)



Detection area*

100%	2m	3.5m
50%	1m	2m

*These data were tested by a 165cm height person and his walking speed is 1m/s.

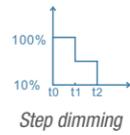


SPECIFICATIONS

Operating voltage	347/480Vac
Rated Load	800W@347Vac(Inductive); 1200W@347Vac(Resistive) 1200W@480Vac(Inductive); 1800W@480Vac(Resistive)
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	8m Max.
Max. Mounting height	15m
Hold time	Sensor: 5s/30s/1min/3min/20min/30min Remote control: 5s/30s/1min/3min/5min/10min/20min/30min
Stand-by Period	Sensor: 0s/1min/3min/10min/30min/Disable Remote control: 0s/10s/1min/3min/5min/10min/30min/Disable
Stand-by DIM Level	10%/20%/30%/50%
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35℃ ~ 55℃
IP rating	IP65

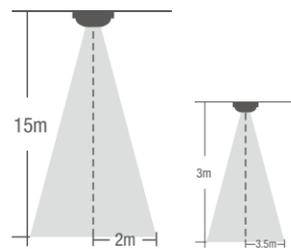
North American Products

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Detection Pattern (max / min)

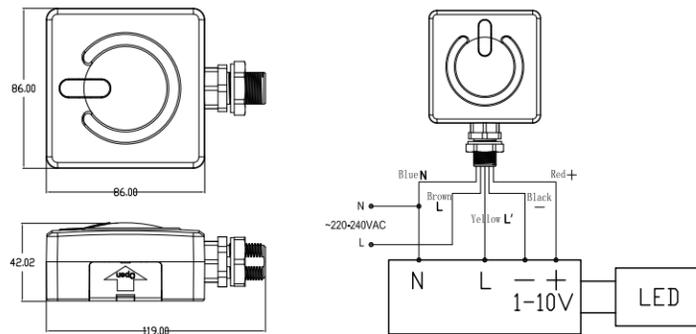


Detection area*

100%	2m	3.5m
50%	1m	2m

*These data were tested by a 165cm height person and his walking speed is 1m/s.

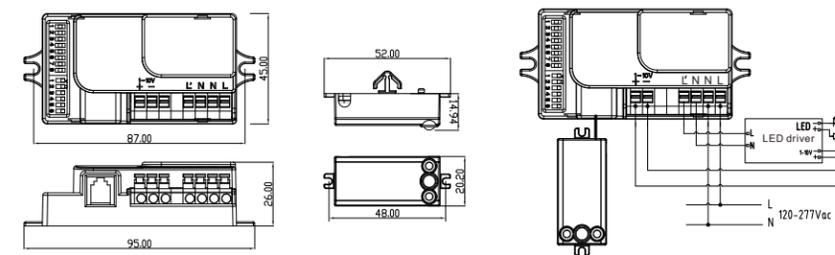
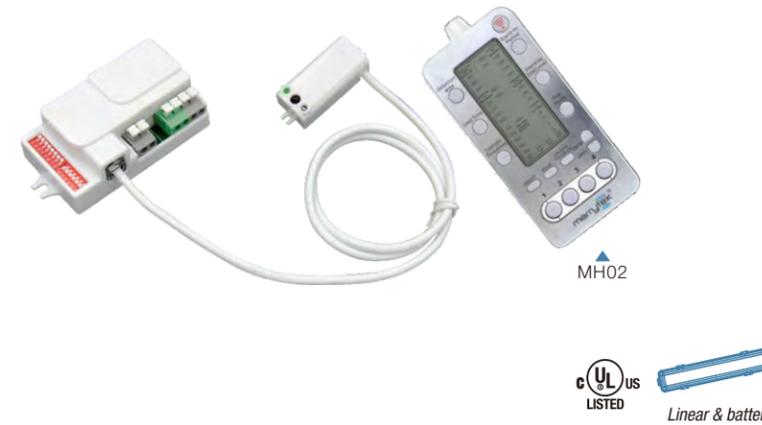
MC610V RC/MC611V RC North American Version / Dimming Function



SPECIFICATIONS

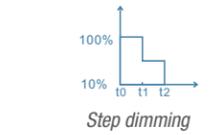
	MC610V RC	MC611V RC
Operating voltage	120/277Vac	347/480Vac
Rated Load	120Vac: 4A Electronic/magnetic ballast 277Vac: 3A Electronic/magnetic ballast	347Vac: 3A Electronic/magnetic ballast 480Vac: 3A Electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW	<0.5mW
Power consumption	≤0.5W(stand-by)	≤0.5W(stand-by)
Detection Area(Radius)	8m Max.	8m Max.
Max. Mounting height	15m	15m
Hold time	Sensor: 5s/30s/1min/3min/20min/30min Remote control: 5s/30s/1min/3min/5min/10min/20min/30min	Sensor: 5s/30s/1min/3min/20min/30min Remote control: 5s/30s/1min/3min/5min/10min/20min/30min
Stand-by Period	Sensor: 0s/1min/3min/10min/30min/Disable Remote control: 0s/10s/1min/3min/5min/10min/30min/Disable	Sensor: 0s/1min/3min/10min/30min/Disable Remote control: 0s/10s/1min/3min/5min/10min/30min/Disable
Stand-by DIM Level	10%/20%/30%/50%	10%/20%/30%/50%
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35°C ~55°C	-35°C ~55°C
IP rating	IP20	IP20

MC612VD RC North American Version / Dimming Function



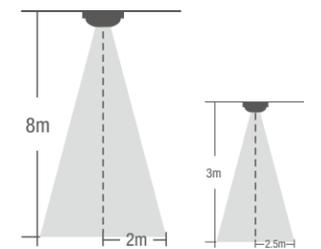
SPECIFICATIONS

Operating voltage	120/277Vac
Rated Load	120Vac: 4A Electronic/magnetic ballast 277Vac: 3A Electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	4m Max.
Max. Mounting height	8m
Hold time	Sensor: 5s/30s/1min/5min/10min/15min/30min Remote control: 5s/30s/1min/10min/15min/30min
Stand-by Period	Sensor: 0s/1min/3min/5min/10min/30min/+∞ Remote control: 0s/1min/3min/5min/10min/30min/+∞
Stand-by DIM Level	10%/20%/30%/50%
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35°C ~70°C
IP rating	IP20



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Detection Pattern (max / min)

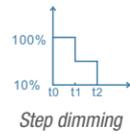


Detection area*

100%	2m	2.5m
75%	1m	1.5m
50%	0.5m	1m
25%	0m	0.5m

*These data were tested by a 165cm height person and his walking speed is 1m/s.

North American Products



Normal motion detecting



Daylight threshold



5 Year Guarantee

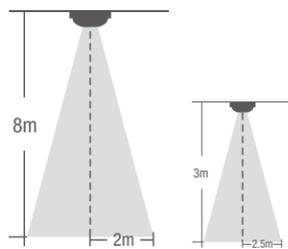
MC613VD RC

Dimming Function/ Detachable Version

For LED Tri-proof Light & LED Batten



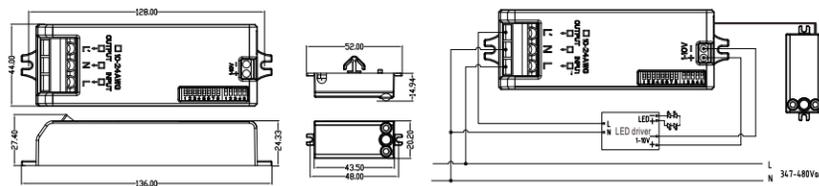
Detection Pattern (max / min)



Detection area*

100%	2m	2.5m
75%	1m	1.5m
50%	0.5m	1m
25%	0m	0.5m

*These data were tested by a 165cm height person and his walking speed is 1m/s.



SPECIFICATIONS

Operating voltage	347/480Vac
Rated Load	347Vac: 3A Electronic/magnetic ballast 480Vac: 3A Electronic/magnetic ballast
HF system	5.8GHz±75MHz, ISM wave band
Transmitting power	<0.5mW
Power consumption	≤0.5W(stand-by)
Detection Area(Radius)	4m Max.
Max. Mounting height	8m
Hold time	Sensor: 5s/30s/1min/5min/10min/15min/30min Remote control: 5s/30s/1min/10min/15min/30min
Stand-by Period	Sensor: 0s/1min/3min/5min/10min/30min/+∞ Remote control: 0s/1min/3min/5min/10min/30min/+∞
Stand-by DIM Level	10%/20%/30%/50%
Daylight sensor	5lux/15lux/30lux/50lux/100lux/150lux/Disable
Operating temperature	-35℃ ~ 70℃
IP rating	IP20

Accessories

MS01



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MS02



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MH01



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MH02

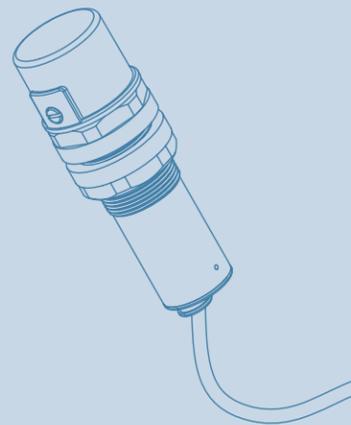


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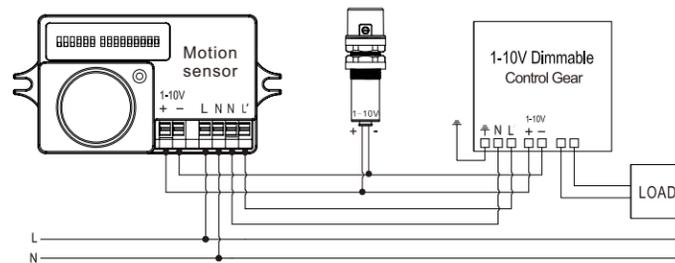
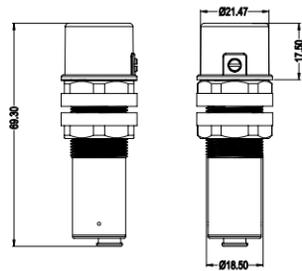




Daylight harvesting

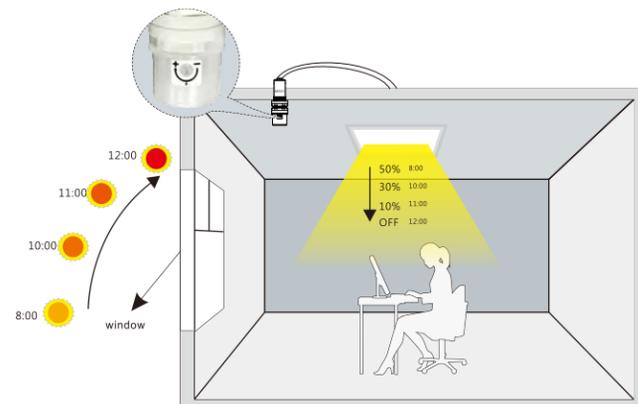
5 Year Guarantee
5 Year Guarantee

MS01 Daylight Sensor

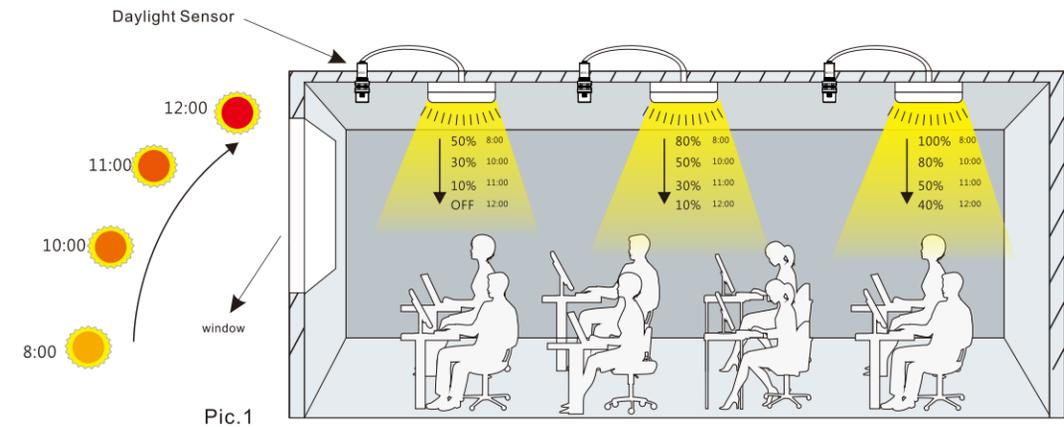


SPECIFICATIONS

Operating voltage	1-10Vdc
Max. current sink	50mA(Maximum rating)
Dimming range	1% - 100%
Color coding of cable	Red+, Black-
Cable length	80cm
Detection angel	90°
Operating temperature	-0°C ~45°C
IP rating	IP20



Connecting to 1-10V interface and using photocell to measure the ambient lux level and automatically calculate how much artificial light is needed.



When the ambient light is larger than the present illumination level (Set by 1-10V daylight sensor), the lamp stays off.

When the ambient light is below the present illumination level, the lamp switches on when motion is detected.

The lamp light dims to maintain its present illumination level against the ambient light.



If there is sufficient ambient light, the lamp turns off at once, even with motion trigger.



If there is insufficient ambient light, the lamp dims to a stand-by dimming level (Set in the motion sensor) when no motion is detected during hold time, it will switch off after stand-by period.

		Function			
		Automatically switches on when motion is detected	Dimming Range	Dimming level at stand-by period	Automatically switches off
MS01	1-10V dimmable ballast or LED driver	N	1%~100%	N/A	N
MS01	ON-OFF function sensor + 1-10V dimmable ballast or LED driver	Y	1%~100%	N/A	Y
MS01	Dimming function sensor + 1-10V dimmable ballast or LED driver	Y	1%~100%	Remain the present level on the sensor	Y



ON/OFF function

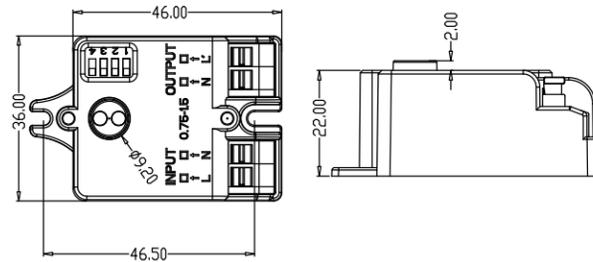


Identifying of artificial LED light and natural light



5 Year Guarantee

MS02 Daylight Switch



SPECIFICATIONS

Operating voltage	220~240Vac
Rated Load	400W LED
Open/close	Open: 5lux/10lux/25lux/50lux/100lux/150lux/200lux/disable Close: 25lux/50lux/75lux/100lux/200lux/300lux/400lux/disable
Operating temperature	-20°C ~50°C
IP rating	IP20

Dusk-to-dawn Switching

MS02 is suitable to be installed in all types of LED lighting fixtures and switches on lights at dusk, switches off lights at dawn.



1 Automatically switches on the lights at dusk.



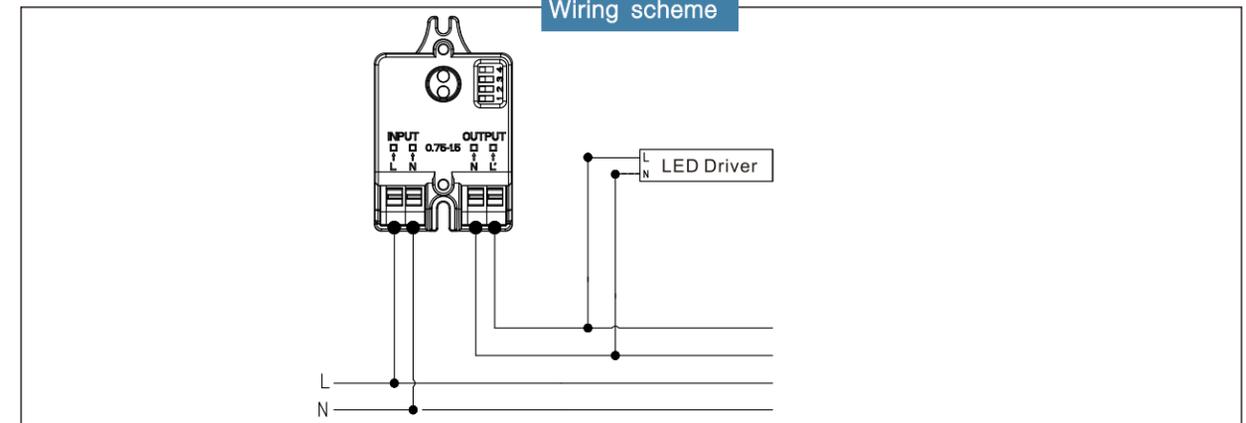
2 Stays continuously illuminated throughout the night.



3 Switches off the lights at dawn.

Note: As MS02 is designed for LED lighting fixtures, it is not applicable to tungsten-halogen lamp. The user needs to determine whether it can be used in other types of luminaires.

Wiring scheme



Setting

By selecting the correct combination of the DIP switches, switching on/off lux level can be set based on desired requirements.

	1	2	3	4	open	close
I	ON	ON	ON	ON	5Lux	25Lux
II	ON	ON	ON	-	10Lux	50Lux
III	ON	ON	-	ON	25Lux	75Lux
IV	ON	ON	-	-	50Lux	100Lux
V	ON	-	ON	-	100Lux	200Lux
VI	ON	-	-	-	150Lux	300Lux
VII	-	ON	-	-	200Lux	400Lux
VIII	-	-	-	-	-	Disable

Night/Light Sensor Function

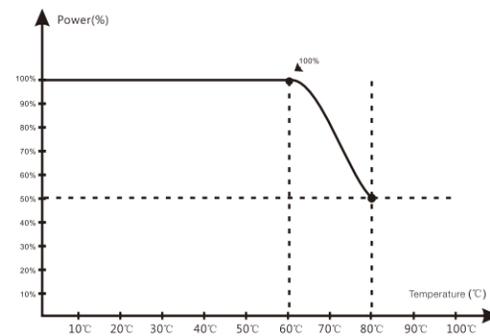
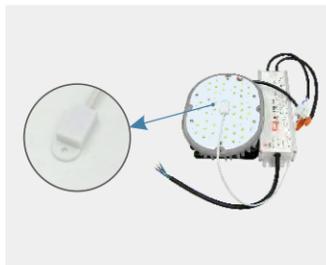
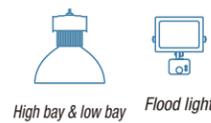
When the ambient light level is below the open lux level, the sensor will switch on the lights at 100% brightness automatically. When the ambient light level is over the close lux level, the lights will be switched off.



temperature guard

MK003 Temperature Sersor

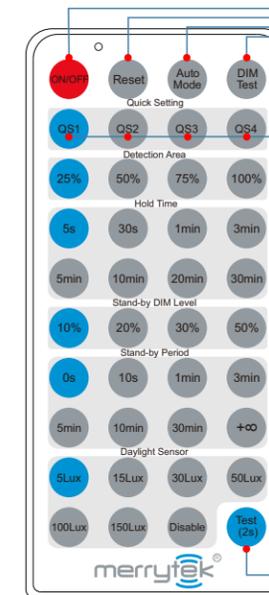
- Intelligent Temperature Guard (over temperature protection)
- Intelligent Temperature Management
- Temperature monitoring of LED module
- Powered by a standard 1-10Vdc interface without needing a special led driver with NTC connection.



SPECIFICATIONS

Operating voltage	1~10Vdc
temperature of derating	60°C
Length of wire	400mm
Connection	White:1-10V(+) Black:1-10V(-)
Dimension	31.5x15x8mm
IP rating	IP20

SETTINGS (REMOTE CONTROL MH01)



Button	Remarks
ON/OFF	Press the "ON/OFF" button, the light goes to constant on or constant off mode, the sensor is disabled. Press "Reset" or "Auto Mode" button to quit from this mode.
Reset	Press "Reset" button, all parameters are the same as the DIP switch setting.
Auto Mode	Press "Auto Mode" button, the sensor starts to work and all parameters setting will remain the same as the previous status before the light is switched on/off.
DIM Test	Press "DIM Test" button to test the dimming function. The sensor will dim automatically and return to the normal work mode.
Test (2s)	The button "Test(2s)" is for factory testing purpose only. The sensor will go in to test mode, Detection sensitivity: 100% Hold time: 2sec stand-by dim level:10% Stand-by period: 0s Daylight sensor: Disable Test mode can be disabled by pressing any button.

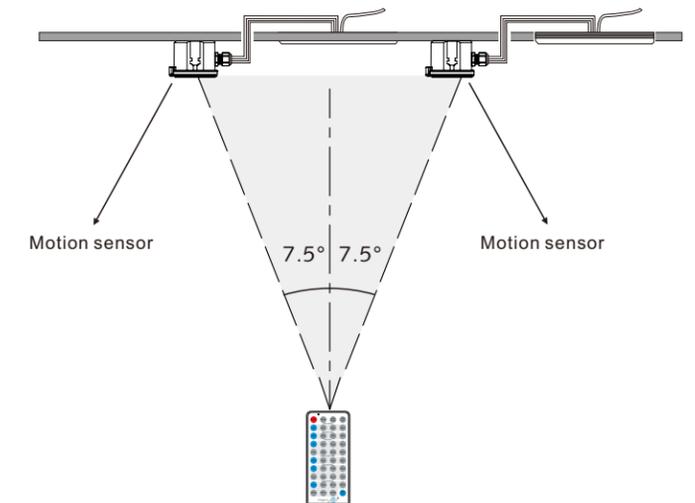
Scene Options	Detection Area	Hold Time	Stand-by period	Stand-by dim level	Daylight Sensor
QS1	100%	30s	1min	10%	5Lux
QS2	100%	1min	3min	10%	10Lux
QS3	100%	5min	10min	10%	30Lux
QS4	100%	10min	30min	10%	Disable

Note: Detection area / Hold time / Stand-by period / Stand-by dim level / Daylight sensor can be adjusted by pressing the corresponding button. The latest setting will stay valid.

The Microwave Sensor's green working light will flash 3 times when the remote control is set successfully.

As the control angle of the Infrared Remote Control is fixed (15°), if the sensors are installed too close to each other, the settings of both sensors will be configured. Please refer to the below chart for the distance of the installation of each sensor:

Mounting height	Distance between each sensor
15m	4m
12m	3.4m
9m	2.4m
6m	1.6m
3m	0.8m



SETTINGS (REMOTE CONTROL MH02)



Button	Name	Description
	Transmit	Uploads the settings
	Detection Area	25% / 50% / 75% / 100%
	Hold time	The timeout from 100% to dim 5S/30s/1min/5min/10min/15min/20min
	Daylight Threshold	5Lux/15Lux/30Lux/50Lux/100Lux/150Lux/ Disable
	Stand-by period	The timeout from dim to off 0S/1min/3min/5min/10min/20min/30min/+
	Stand-by DIM level	10% / 20% / 30% / 40%
	Auto mode	1. Movement Motion detect 3-6m 2. Presence detect 3-6m 3. Presence detect with daylight harvesting 3-6m 4. High mounting: 6-15m 5. High mounting with daylight harvesting : 6-15m
	ON-OFF	Permanent ON/OFF
	Reset	Button for default settings
	Ambient Threshold	Pressing this button, will disable the daylight harvesting function, which is offset if the current threshold is not suitable
	Dim+ / Dim -	Adjust the target light level according to the ambient light
	1/2/3/4	4 optional quick settings

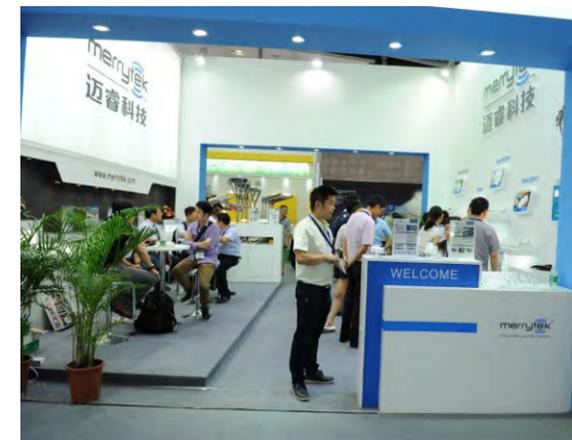
Merrytek Exhibitions



■ Light + Building Trade Fair (Frankfurt, Mar 2016)



■ International Lighting Fair (Hongkong, Oct 2016)

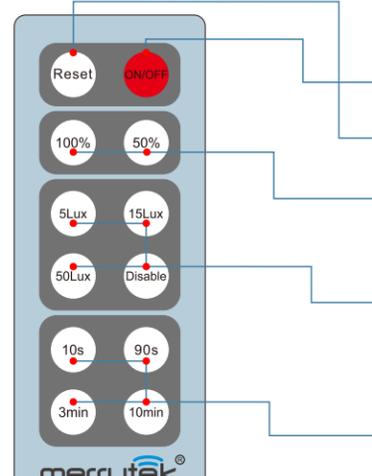


■ International Lighting Exhibition (Guangzhou, Jun 2016)



■ International Sourcing Fair (Ningbo, May 2016)

SETTINGS (REMOTE CONTROL MH03)



Button	Remarks
	Press the "ON/OFF" button, the light goes to constant on or constant off mode, sensor is disabled.
	Press "Reset" button, all parameters are the same as the DIP switch setting.
	Detection area: 50% / 100%
	Daylight sensor: 5Lux/15 Lux/50 Lux/Disable
	Hold time: 10s/90s/3min/10min



■ Luxlive Fair (London, Nov 2016)

