PORTOR LIGHTING
a PORTOR INDUSTRY brand

PT-MSH-PR

PIR Motion Sensor

Project Name:	Notes:	Date:	Type:

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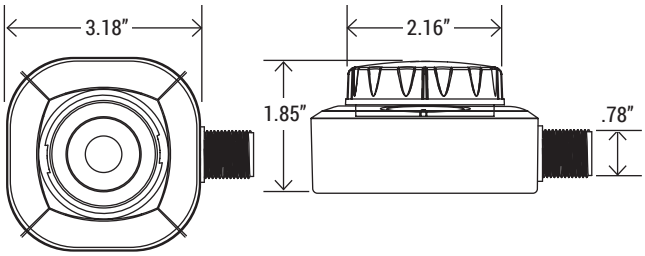
RoHS COMPLIANT



MSH-RC2

Intelligent Remote Control Unit

(Needed to program motion sensor, sold separately)

DESCRIPTION

The PT-MSH-PR mounts in an indoor lighting fixture and provides multi-level control based on motion. The occupancy sensors are designed to mount to a light fixture and control one load in that fixture. When motion is detected within the sensor's coverage area, the relay in the sensor closes, and lighting loads are automatically turned on.

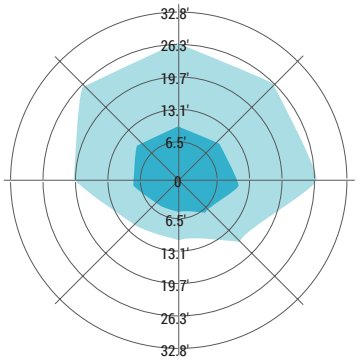
TECHNICAL SPECIFICATION

OPERATING VOLTAGE	120-347VAC, 50Hz/60Hz
STAND-BY POWER	≤1W (230VAC)
MAX LOAD	120V:3.3A/400W(Control Gear); 800W Ballast or Incandescent 230V:3.5A/800W(Control Gear); 1600W(Ballast or Incandescent) 347V:1.0A/350W(Control Gear); 700W Ballast or Incandescent
CONTROL METHOD	1-10V Dimm, ON/OFF
STAND-BY PERIOD	0s/10s/30s/1min/5min/10min/30min/60min/+∞
STAND-BY DIMMING LEVEL	10%/20%/30%/50%
PIR WAVE LENGTH	5-14um
PEAK OUTPUT SIGNAL	≥3500mW
PIR SENSITIVITY	≥3200V/W
DETECTION AREA	25%/50%/75%/100%
HOLD TIME	5s/30s/1min/3min/5min/10min/20min/30min
DAYLIGHT THRESHOLD	2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable
MOUNTING HEIGHT	up to 8-12M/ 26.24-39.37ft (ceiling mounted)
DETECTION RANGE	Radius 12M/39ft Max
MOTION DETECTION	0.5~1m/s
DETECTION ANGLE	<120° (Without Glass Cover)
IP RATING	IP20
OPERATING TEMP.	-4°F ~ 140°F (-20°C ~ 60°C)
WARRANTY	3 years limited

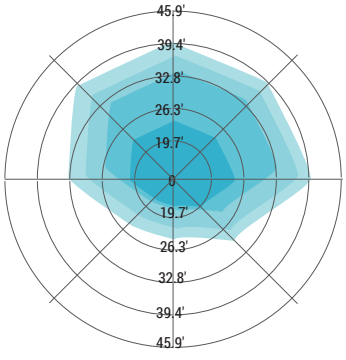
DEFAULT PROGRAMMING: Detection Area **50%**, Hold time 5S, Daylight Threshold Disable, Standby Period 0S, Standby Dimming Level 10%

SENSITIVITY: CEILING MOUNT: 100% 75% 50% 25%

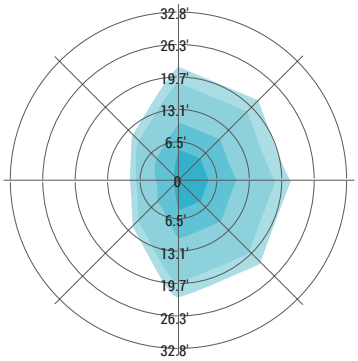
Detection Angle	<120° (w/o glass cover)
Mounting height	3m/9.84 ft
Nominal movement	1m/sec., 13.28 ft/sec
Detection area	100%, 50%



Detection Angle	<120° (w/o glass cover)
Mounting height	6m/19.7 ft
Nominal movement	1m/sec., 13.28 ft/sec
Detection area	100%, 75%, 50%. 25%



Detection Angle	<120° (w/o glass cover)
Mounting height	12m/39.4 ft
Nominal movement	1m/sec., 13.28 ft/sec
Detection area	100%, 75%, 50%. 25%



ATTENTION

1. **We reserve the right to necessarily modify any incorrect words or pictures or technical parameters.**
2. **Do NOT rework the sensor without permission or authorization, otherwise the contract clauses guaranteed will be invalid immediately.**

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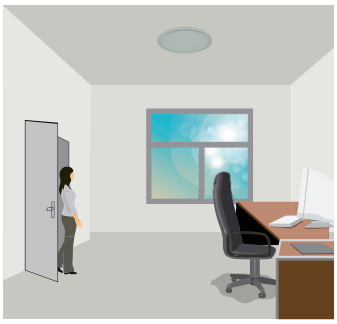
PT-MSH-PR

PIR Motion Sensor

Project Name:	Notes:	Date:	Type:

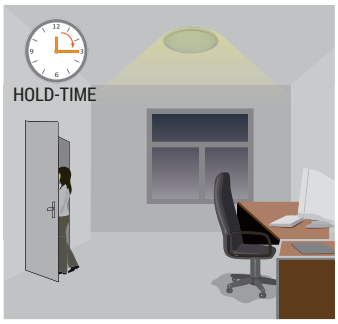
APPLICATION:

ON/OFF Function: If the standby period is preset as 0S, the sensor will turn OFF the light automatically after hold-time.



With enough ambient brightness, sensor will keep the light OFF even though it detects heat.

When ambient brightness gets lower than the preset daylight lux level, the sensor will turn ON light once it detects heat in the area.



After heat leaves the area, the sensor will keep light 100% ON for a hold-time period, then turn OFF light automatically.

APPLICATIONS:
1. **Do NOT mount it outdoor, in case the outdoor temperature disturbs it.**
2. **Do NOT have it at places with suddenly changed temperature or airflow.**
3. **Do NOT have shelves between sensor to the presence area.**

DAYLIGHT Disable: If daylight threshold is preset as disable, the sensor will turn ON light once it detects heat regardless of ambient brightness.

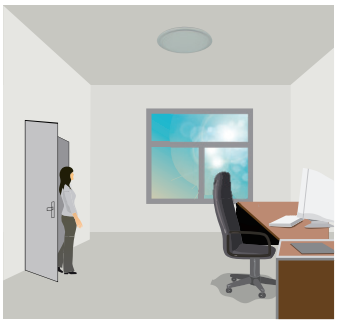
The sensor will turn ON light once it detects heat.

The sensor will keep light 100% ON for a hold time period after heat leaves the area.

The sensor will dim light to standby dimming level and keep for a standby period after hold time.

The sensor will turn OFF light if no heat detected during the standby period; With heat presence, it will turn ON light immediately.

DIMMABLE Function



With enough ambient brightness, sensor will keep the light OFF even though it detects heat.

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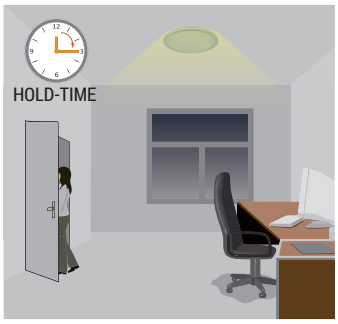
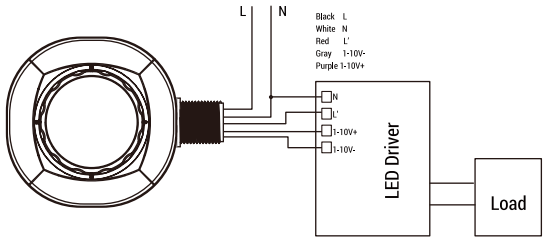


The sensor will dim light to standby dimming level and keep for a standby period after hold time.

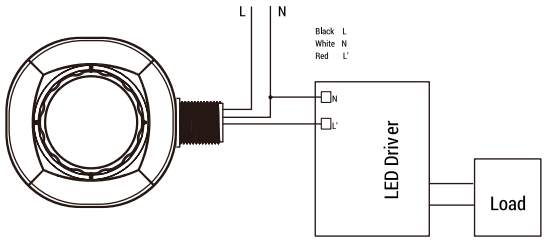
The sensor will turn OFF light if no heat detected during the standby period; With heat presence, it will turn ON light immediately.

WIRING DIAGRAMS:

DIMMABLE



ON/OFF



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MSH-RC2

Intelligent Remote Control Unit

Project Name:	Notes:	Date:	Type:

SCREEN DISPLAY, MEMORY & APPLY FUNCTION, OPTIONAL SCENES

BUTTON	FUNCTION	PERFORMANCE
	ON/OFF	Turn ON or OFF the sensor.
MW/PIR	MW/PIR	Exchange from Microwave detection to PIR detection, for future use.
Scene	RESET	Press it to start detection programming; before pressing any other buttons, the screen shows default programming (Detection Area 100%, Holdtime SS, Daylight Disable, Standby Dimming 10%, Standby Period OS)
Start	START	Press it before you try to memorize program into the remote; After pressing it, Son the screen will blink and keeping blinking while making the program.
Memory	MEMORY	Press it after programming, the blinking Swill become a solid M, that means the program has been well memorized.
Apply	APPLY	Press it to deliver the preset program to the specific sensors; every presswill make the whole screen blink gently.
	DETECTION AREA	Also known as "sensitivity", 100% means the highest sensitivity and longest distance. Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	HOLD TIME	The period that light will stay illuminated 100% after no motion's detected; Press it, specific icon on the screen will blink and press the +- buttons to adjust.
	DAYLIGHT THRESHOLD	The preset lux level to compare with ambient brightness when motion gets detected; Press it, specific icon on the screen will Threshold blink and press the + - buttons to adjust.
	STAND-BY PERIOD	The period after holdtime, during which the light keeps standby dimming level; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
	STAND-BY DIMMING LEVEL	After holdtime, the light will dim from 100% to optional standby dimming levels; Press it, specific icon on the screen will blink and press the + -buttons to adjust.
	UP	The main functional buttons to adjust the factors to wanted level.
	DOWN	
POWER %	POWER	Supports to manually change dimming output in detection mode; Press it, specific icon on the screen will blink and press the + - buttons to adjust.
Test 2s	TEST MODE	Supports to check if the sensor works correctly with a short 2S holdtime;Press it and the holdtime will change to 2S, and it can't be memorized

HOW TO USE MSH-RC2

SENSOR PROGRAMMING

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
4. Same programming with all the other functional buttons of hold time, standby dimming level, standby period and daylight threshold
5. Done and leave the remote

* Icon keeps blinking on the screen for 5S that means the program will then be kept after 5S.
* Each press will make sensor dim down light then back to100%, it means remote signal has been well received.

MEMORY AND APPLY

@the 1st sensor

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. START button
4. Choose functional button of detection area, see icon blinking on the LCD screen display then use + - buttons to change
5. Same programming with all the other functional buttons of hold time, standby dimming level, standby period and daylight threshold
6. MEMORY button
7. APPLY button

@the other sensors

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. APPLY button

MANUAL DIMMING ON/OFF mode

1. ON/OFF button to turn on the light
2. Press+- button to dim light directly, it dims from 10% to 100%

DIMMING mode

1. ON/OFF button to turn on the light
2. SCENE button to start programming
3. POWER button
4. +- buttons to dim light, but it only dims from 60% to 100%; 50% is one of the standby dimming level options

*** NUMBER ON LCD SCREEN DISPLAY MAY KEEP CHANGING 10%-100%.**