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SPECIFICATION

PIR MOTION SENSOR with remote controller

MD. ES-220PS-RM (ON/OFF)



★ FEATURES

---Only sensor used

- ✦ **Test Mode + Auto Mode** ↔ **Manual Override**
- ✦ **Test mode function:** During the day or night, when motion stops, the light will turn off in about 5 seconds.

The test mode has a period of 2minutes, and then automatically enters Auto mode.

- ✦ **Auto Mode Function:** At dusk, The light will stay ON as long as the motion is detected. when people leaving, the light will turn on for 2 minutes, and then turn off automatically.
- ✦ **Switch the power switch three times in 5 seconds to restore the factory settings .**
- ✦ **8hrs Auto re-set Manual Override or re-set by flipping the switch within 2".**

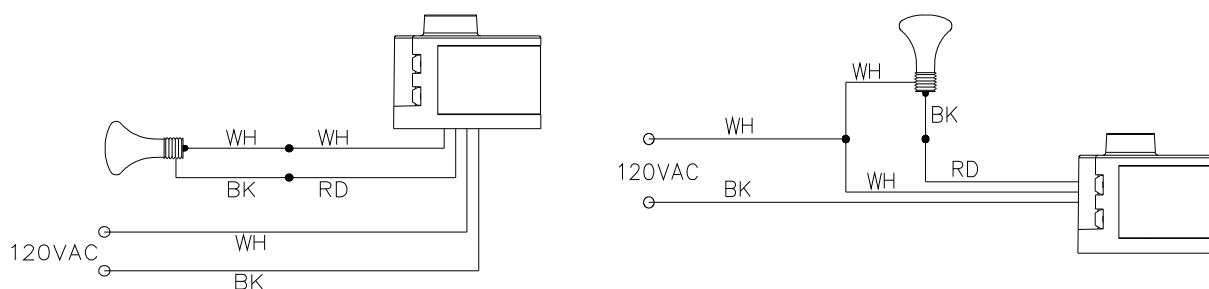
---Sensor and remote control be used together

- ✦ **Test Mode + Auto Mode + DTD mode + ON/OFF mode can be set by remote controller**
- ✦ **Test mode function:** During the day or night, when motion stops, the light will turn off in about 5 seconds.
- ✦ **Auto Mode Function:** At dusk, The light will be turned ON with high brightness as long as the motion is detected. when people leaving, the light will turn on for the predetermined time you set (1 minute to 10 minutes adjustable), and then turn off automatically.
- ✦ **DTD mode Function:** Turn on the light with high-level brightness at dusk and turn off at dawn automatically.
- ✦ **ON/OFF mode:** Turn on the light with high-level brightness or turn off it by remote controller.
- ✦ **Delay time can be set from 1 minute to 10 minutes by remote-controller in Auto Mode.**
- ✦ **Sensitivity can be set at L(3 meters) or M(6 meters) or H(9 meters) by remote controller.**
- ✦ **High brightness can be adjusted from 100% to 20% Cyclic regulation by remote-controller in, Test mode or Auto mode or DTD Mode or ON/OFF mode by "Dim+" and "Dim-" button on remote-controller.**
- ✦ **Activating light level can be adjusted from 15lux to 300lux Cyclic regulation,by "lux+" and "lux-" button on remote-controller.**
- ✦ **Activating light level can be set as required by "Learn" button on remote-controller**
- ✦ **Detection range:** Min.9M×220°detection range for wall use.
- ✦ **Switch the power switch three times in 5 seconds or press the "Reset" button on the remote control to restore the factory settings, and enter the Auto mode 2minutes,Sensitivity H(9meters), Activating light level 50lux .**
- ✦ **Meet FCC requirements when full bright (@ON mode high brightness 100%)**

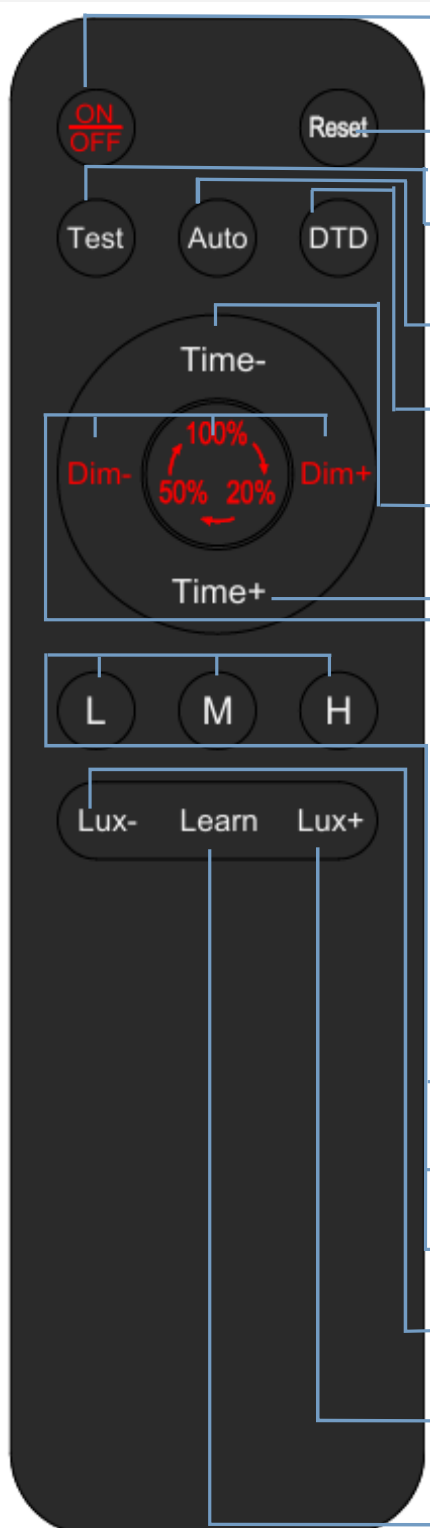
★ TECHNICAL DATA

DESCRIPTIONS	SPECIFICATIONS
Input power	120 VAC±10 % , 60Hz
Load Rating	Max.100 Watts Incandescent ; or Max 60W dimmable LED bulb/LED driver ; or Max 60W dimmable Fluorescent
Detection angle	220°(wall installation)
Mounting height	Max.2.2m(for wall use)
Detect Range,(tangential)	Min.9m @25°C ambient temperature
Delay time	1min/2min/3min... /10min @Remote control 2min @factory setting
Detection sensitivity	100% (H)/60%(M) / 30% (L) @Remote control 100% @factory setting
Daylight sensor activate threshold (OFF-ON)	15LUX/50lux /100lux /200lux / 300lux/Define @Remote control 50lux @factory setting
Daylight sensor(ON-OFF)	Max.500LUX
high brightness dimming level	100%/90%/80%/70%/60%/50%/40%/30%/20%
Power Consumption	Max. 0.5 Watt when stand-by
Working Temp	- 30°C ~ 50°C
IP rating	Wet location(Assembled into lighting)

★ WIRING DIAGRAM & SIZE DWG



REMOTE CONTROL FUNCTION

Remote control setting	Button	Function description
	ON/OFF	Press the "ON /OFF" button, the light goes to constant on mode, sensor is disabled . Press "ON /OFF" button again to quit from this mode and the sensor starts to work. With memory for ON/OFF setting after power off, on mode will keep after restart power supply
	Reset	Press "Reset" button to restore all parameters to factory settings. Factory setting function: Sensor operates in "Auto" mode, Delay time is 2 minutes,and Daylight sensor activates light level is 50LUX, Sensitivity H(9meters).
	Test	Press the "TEST" button can enter the test mode anytime .In the mode, during the day or night, when motion stops, the light will turn off in about 5 seconds.
	Auto	Press the "Auto" button, and the sensor can detect motion to control the light to works at night.
	DTD	Press the "DTD" button can enter the DTD mode, control the light to turn on with high-level brightness at dusk and turn off at dawn automatically
	Time-	Press the "Time-" button to set the delay time of Auto mode. Delay time is reduced by one minute each time, and the adjustment range is 10Min to 1Min.
	Time+	Press the "Time+" button to set the delay time of Auto mode. Delay time is increased by one minute each time, and the adjustment range is 1Min to 10Min.
		Press the "100% → 20% → 50% → 100%" button to set the single-level brightness of 100%→20%→50%→100%.
	Dim-	In TEST mode, Auto mode, DTD mode and ON mode, press the "Dim-" button to dim the brightness level by 10% at a time, and the adjustment range is 100% ~ 20%.
	Dim+	In TEST mode, Auto mode, DTD mode and ON mode, press the "Dim+" button to brighten the brightness level by 10% at a time, and the adjustment range is 20% ~ 100%.
	L	Press the" L "button to set 30% sensitivity, and the sensing distance is 3m±1.5m.
	M	Press the" M "button to set 60% sensitivity, and the sensing distance is 6m±2m.
	H	Press the" H "button to set 100% sensitivity, and the sensing distance is Min.9m.
	Lux-	Press the "Lux-" button to Set up daylight sensor activates threshold : 300LUX→200LUX→100LUX→50LUX→15LUX。
	Lux+	Press the "Lux+" button to Set up daylight sensor activates threshold : 15LUX→50LUX→100LUX→200LUX→300LUX。
	Learn	Press the "Learn" button for 3 seconds to automatically learn the ambient light currently detected by the daylight sensor as the activate threshold. When the ambient light is lower than this threshold, the sensor will start working, and when it is higher than this threshold, the sensor will stop working.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different

from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



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规格书

带遥控器的 PIR 运动感应器

MD. ES-220PS-RM (ON/OFF)



★ 产品特点

——仅使用感应器

✦ 测试模式 + 自动模式 ↔ 手动长亮模式

✦ 测试模式功能：在白天或晚上，当运动停止时，灯将在大约 5 秒后关闭。测试模式持续 2 分钟，然后自动进入自动模式。

✦ 自动模式功能：黄昏时，只要检测到运动，灯就会一直亮着。当人们离开后，灯会在 2 分钟后熄灭。

✦ 在 5 秒钟内切换电源开关三次以恢复出厂设置。

✦ 手动长亮模式，在 2 秒内切换电源开关一次，产品当晚点灯 8 小时。

——红外感应器和遥控器一起使用

✦ 测试模式 + 自动模式 + DTD 模式 + 开/关模式可通过遥控器设置

✦ 测试模式功能：在白天或晚上，当运动停止时，灯将在大约 5 秒后关闭。

✦ 自动模式功能：黄昏时，只要检测到运动，灯就会以高亮度打开。不再检测到运动后，灯将在您预先设置的时间内点灯（1 分钟至 10 分钟可调），然后自动关闭。

✦ DTD 模式功能：黄昏时灯高亮度开启，黎明时自动关闭。

✦ 开/关模式：用遥控器以高亮度打开/关闭灯具。

✦ 在 Auto 模式，可通过遥控器设置 1 分钟至 10 分钟的延迟时间。

✦ 灵敏度可以通过遥控器设置为 L（3 米）或 M（6 米）或 H（9 米）。

✦ 通过遥控器上的“Dim+”和“Dim-”按钮，在 Test 模式、Auto 模式、DTD 模式或 ON/OFF 模式下，可以通过遥控器将高亮度从 100% 调节到 20% 循环调节。

✦ 通过遥控器上的“Lux+”和“Lux-”按钮，可以将光敏零件的激活亮度（启动 LUX）从 15Lux 调节到 300Lux 循环调节。

✦ 可通过遥控器上的“Learn”按钮根据需要设置光敏零件激活灯的照度。

✦ 侦测范围：壁挂安装使用时最小 9M×220°。

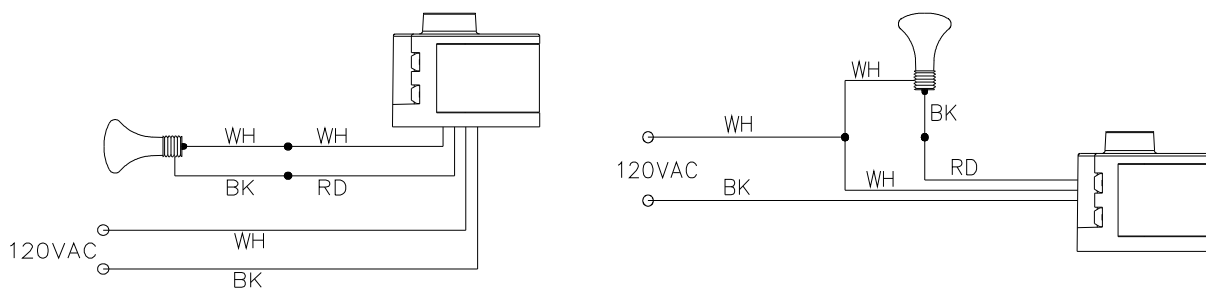
✦ 在 5 秒内切换电源开关三次或按遥控器上的“Reset”按钮以恢复出厂设置，自动模式 2 分钟、最远距离 H（9 米）、50Lux 档。

✦ 全亮符合 FCC 要求（@ON 模式 100% 亮度）。

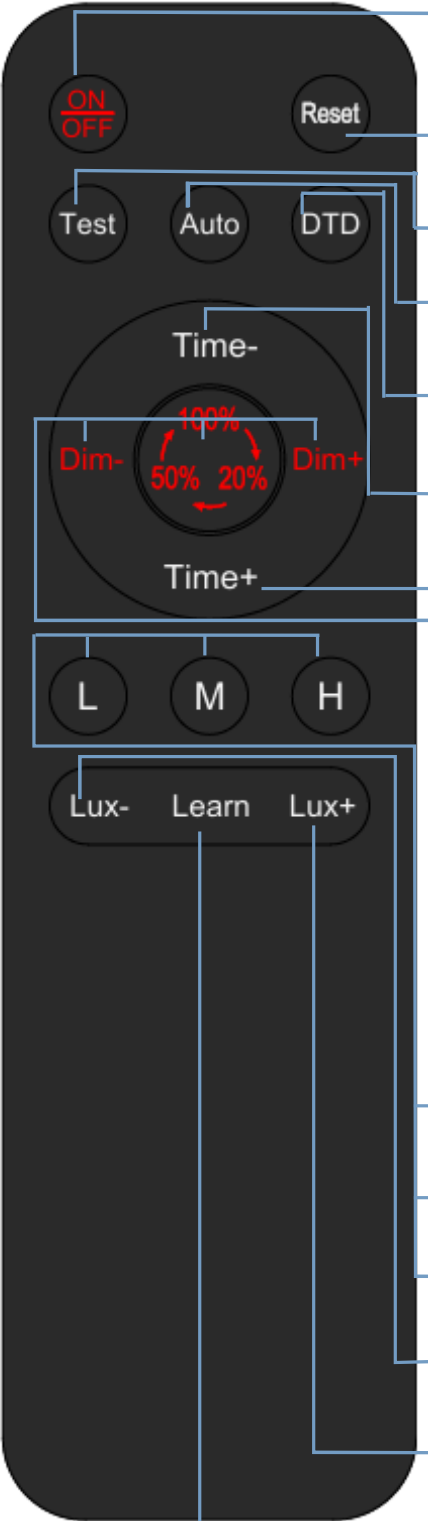
产品特性

项目	规格
输入功率	120 VAC±10%，60Hz
额定负载	最大 100 瓦白炽灯；或者最大 60W 可调光 LED 灯泡/LED 驱动器；或最大 60W 可调光荧光灯
检测角度	220° (墙壁安装)
安装高度	Max. 2.2m (墙壁安装)
侦测范围, (切向)	最小 9m @25℃ 环境温度
延迟时间	1min/2min/3min... /10min @遥控器控制 2min @出厂设置
检测灵敏度	100% (H)/60%(M) / 30% (L) @遥控器控制 100% @出厂设置
光敏零件激活阈值 (关-开)	15LUX/50lux /100lux /200lux / 300lux/自定义 @遥控器 50lux @出厂设置
光敏零件 (开-关)	Max. 500LUX
高亮度调光比例	100%/90%/80%/70%/60%/50%/40%/30%/20%
待机功耗	最大 0.5W 待机功率
工作温度	- 30℃ ~ 50℃
防水等级	UL1598 潮湿环境 (组装在灯具里做好防水)

接线和尺寸图



遥控功能说明

遥控器面板设置	按键	功能说明
	ON/OFF	按 ON/OFF 按键，进入 ON 模式，灯长亮；再按一次 ON/OFF 按键退出 ON 模式回到操作 ON 按键之前的功能。有断电记忆功能。
	Reset	按 Reset 按键，所有参数恢复出厂设置。 出厂设置功能：感应器处于 Auto 模式延时时间为 2 分，启动 LUX 为 50LUX, 距离为 H 最远。
	Test	按 Test 按键，白天晚上都可以感应亮灯，人离开后延时 5 秒灭灯。
	Auto	按 Auto 按键，感应器只有晚上才可以侦测人活动控制灯具工作。
	DTD	按 DTD 按键，晚上亮灯，白天灭灯。
	Time-	按 Time- 按键，设置 Auto 模式的延迟时间，每按一次延迟时间减一分钟，调节范围为 10Min 到 1Min。
	Time+	按 Time+ 按键，设置 Auto 模式的延迟时间，每按一次延迟时间加一分钟，调节范围为 1Min 到 10Min。
		按 100%→20%→50%→100% 键，快速设置全亮亮度 100%→20%→50%→100%
	Dim-	在 TEST 模式、Auto 模式、DTD 模式时和 ON 模式工作时，按 Dim- 按键，对灯光的亮度调节每次以 10% 为单位调暗，调节范围为 100%~20%。
	Dim+	在 TEST 模式、Auto 模式、DTD 模式时和 ON 模式工作时，按 Dim+ 按键，对灯的亮度调节每次以 10% 为单位调亮，调节范围为 20%~100%。
	L	按下 L 按键，设置 30% 的灵敏度，感应距离 3 米±1.5 米。
	M	按下 M 按键，设置 60% 的灵敏度，感应距离 6 米±2 米。
	H	按下 H 按键，设置 100% 的灵敏度，感应距离最小 9 米。
	Lux-	Lux- 按键，设置启动 LUX，300LUX→200LUX→100LUX→50LUX→15LUX。
	Lux+	Lux+ 按键，设置启动 LUX，15LUX→50LUX→100LUX→200LUX→300LUX。
	Learn	Learn 按键，长按 3 秒才可以自动学习光敏零件当前侦测到的环境光线作为启动 LUX，周围光线低于此阈值，感应器开始工作，高于此阈值，感应器停止工作。