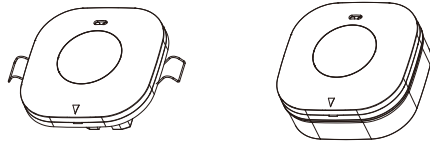


24GHz Large-space presence sensor (Tuya+ON/OFF version)



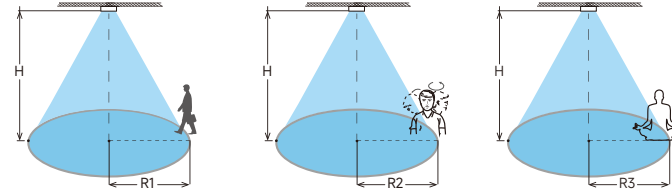
User's Manual



PARAMETERS

Model	MSA050S 99 Z
Input Voltage	220V AC
Working Current	50mA max
Working Power	≤1.5W @220V AC
Output Signal	1 channel relay ON/OFF+tuya zigbee
Transmitting Power	5mW Max.
Detection Area	Tuya app : 0-4m
Hold Time	Tuya app : 3-7200s
Daylight Sensor Range	0-1200lux
Mounting Height	2.5-4.0m
Radius Detection Range (based on 100% sensitivity and tangential moving)	major/minor/micro movement (3m height installation) : 3.5±0.5m (based on 41m² open area test and might change due to different space)
Drill Hole	Φ55mm
Working Temperature	0°C~+50°C
Storage Temperature	-25°C~+80°C
IP Rating	IP20(Flush mounting) IP54(Surface mounting)
Warranty	5 years (available for product quality only)

DETECTION AREA



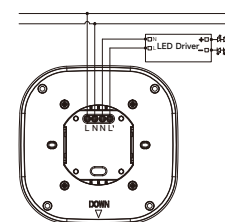
- Major motion activates: detect the human significant moving (walking) in the detection area.
- Minor motion maintains: detect the human slight moving in the detection area, such as leaning forward, leaning backward and back, swinging limbs, shaking head, typing, playing with mobile phones and so on.
- Micro motion maintains: detect human abdominal and thoracic expansion behaviors caused by breathing.



Mounting height H=3m				
Detection Sensitivity	Setting	R1	R2	R3
High sensitivity	4m	3.5-4.5m	3.5-4.0m	3.5-4.0m
	3.5m	3.0-4.0m	3.0-3.5m	3.0-3.5m
	3m	2.5-3.0m	2.5-3.0m	2.5-3.0m
	2.5m	2.0-3.0m	2.0-2.5m	2.0-2.5m
	2m	1.5-2.5m	1.5-2.0m	1.5-2.0m
	1.5m	1.0-1.5m	1.0-1.5m	1.0-1.5m
Medium sensitivity	1m	0.5-1.0m	0.5-1.0m	0.5-1.0m
	0.5m	0.0-0.5m	0.0-0.5m	0.0-0.5m
	4m	3.5-4.0m	3.0-3.5m	3.0-3.5m
	3m	2.5-3.0m	2.5m	2.5m
	2m	1.5-2.0m	1.5m	1.5m
	1m	0.0-0.5m	0.0-0.5m	0.0-0.5m
Low sensitivity	4m	3.0-4.0m	2.5-3.0m	0.0m
	3m	2.0-3.0m	2.0-2.5m	0.0m
	2m	1.0-2.0m	1.0-1.5m	0.0m
	1m	0.0-1.0m	0.5m	0.0m

Tips: Above data is based on 1.6m height people tangential moving towards sensor by 0.3m/s velocity in 81 m² open area for reference. If any variate changes, the detection range might be different.

WIRING INSTRUCTION

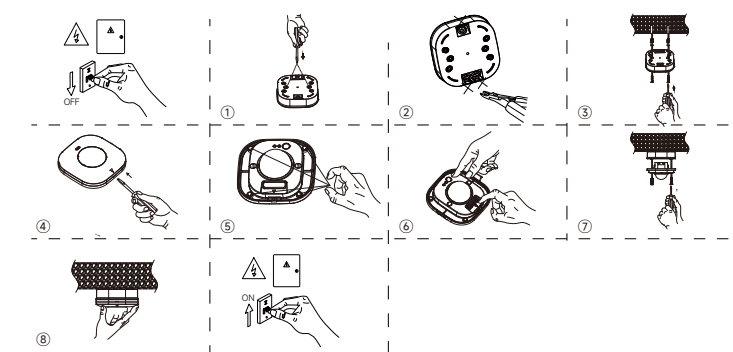


Wiring layout suggestion:

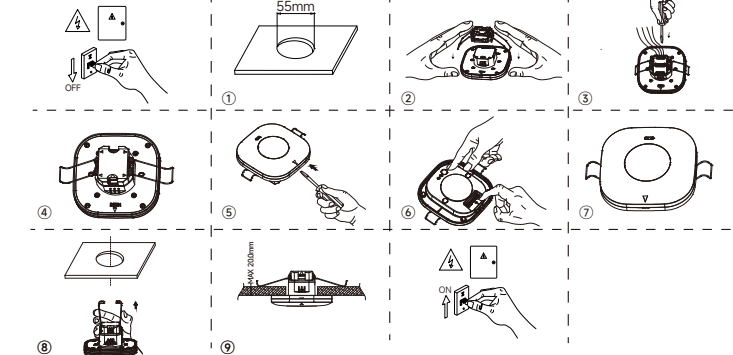
- LN terminal stands for AC input, L' N' stands for AC output, please wiring correctly
- One sensor's max loading capacity is 800w resistive loading and 400w inductive loading for one single load. if you want connect more load in one loop, we recommend to add an AC contactor in our output LN terminal to avoid momentary surge overload

INSTALLATION

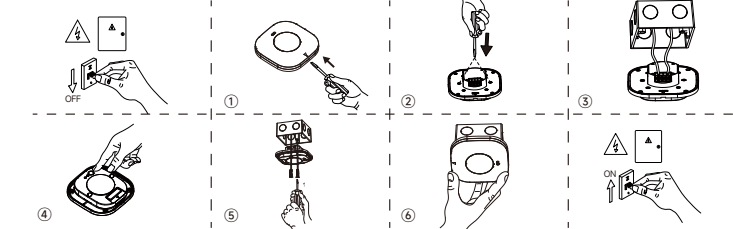
Surface mounting



Flush Mounting



Mounted with EU 86 type switch socket box



APP INSTRUCTIONS

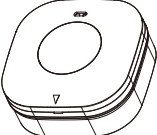
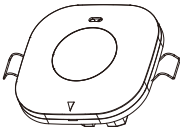


Scan the QR code to download Tuya APP



Function Configuration Download

24GHz 空间存在感应器
(涂鸦 Zigbee+ON/OFF 版)





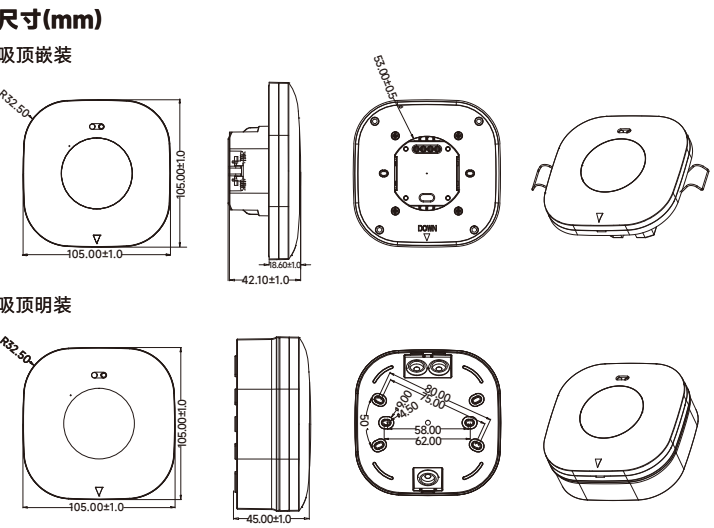
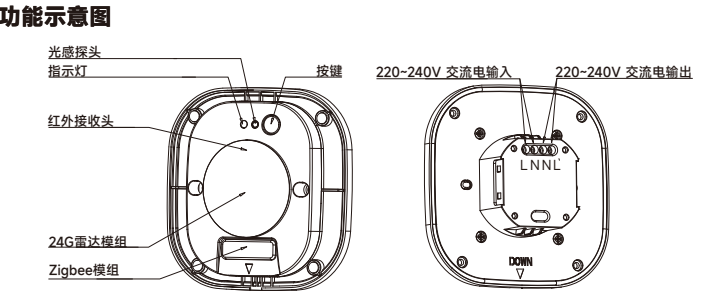
使用说明书
MI250828A0

产品介绍

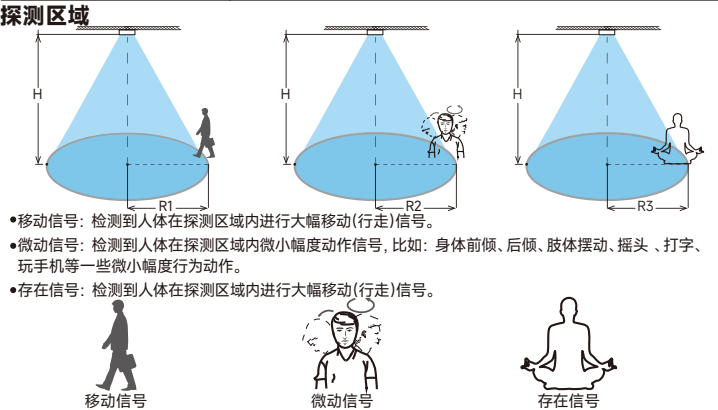
MSA050S 99 Z 是一款基于迈睿科技发明专利的大波束正交式天线的 24GHz 雷达感应器，其天线增益高，感应范围广，结合迈睿科技独特的软件算法和车规级 FMCW 雷达调制方式，它可以实现几乎所有室内空间的人体生命体征带来的细微运动的精准检测，进而通过接入涂鸦 zigbee 生态为当下基于人体存在的智能家居，智慧酒店，智慧办公等场景提供快速且精准的前端传感输入。同时磁传感器还有一路本地继电器输出以便接入需要本地控制的电器设备。

初始化

初次通电指示灯闪烁 10 秒后关闭，接着进入 20 秒判断，20 秒判断无人则发送无人指令，如判断有人则进入正常的感应状态(即开始跑延时时间)，初始化期间不探测外界移动感应信号，指示灯可以通过涂鸦 APP 将指示灯关闭和打开，同时延时时间、探测范围(感应距离)可以通过涂鸦 APP 来设置。

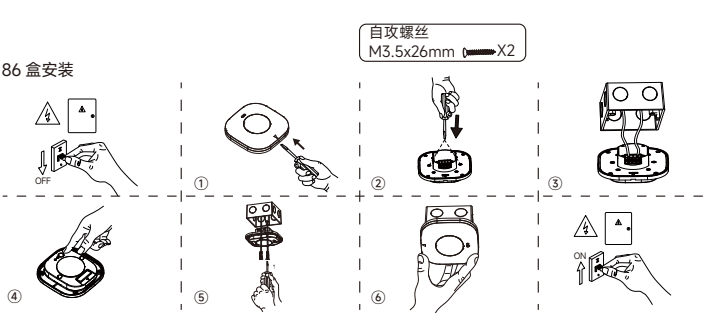
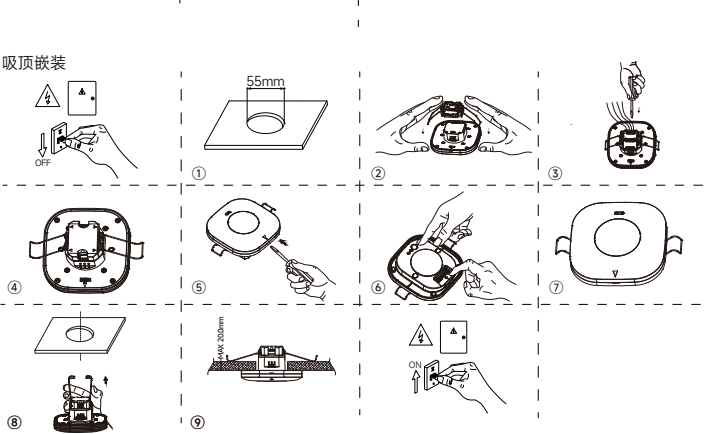
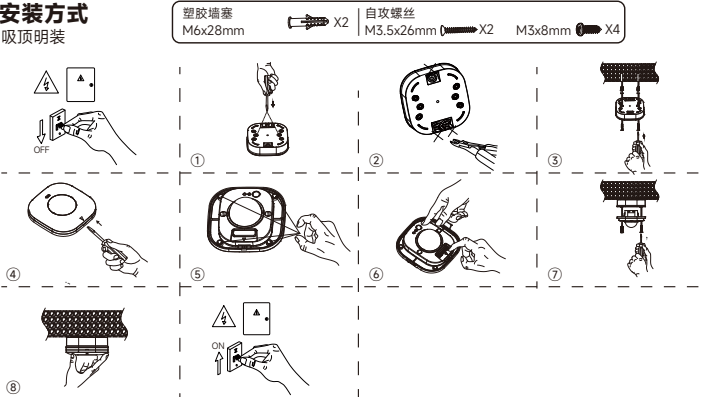
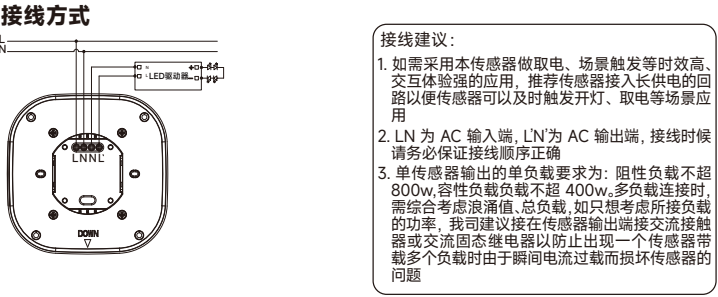


参数	
型号	MSA050S 99 Z
输入电压	220V AC
工作电流	50mA max
工作功耗	≤1.5W @220V AC
输出信号	继电器开关 (Max 800w 阻性负载, 400w 容性负载) +涂鸦 zigbee
发射功率	5mW Max.
感应范围	涂鸦 APP 调节: 0-4m
延时设置	涂鸦 APP 设置: 3-7200s (延时时间需设置>30s 才有存在感应功能)
光感上报范围	0-1200lux
安装高度	2.5-4.0m
探测范围 (100%灵敏度, 半径)	移动/微动/存在 (3m高) : 3.5±0.5m
开孔尺寸	Φ55mm
工作环境温度	0°C~+50°C
储存温度	-25°C~+80°C
防护等级	IP20 (吸顶嵌装) IP54 (吸顶明装)
质保	5年 (只限产品本身质量问题)



H=3m				
安装高度	档位	R1	R2	R3
高感	4m	3.5-4.5m	3.5-4.0m	3.5-4.0m
	3.5m	3.0-4.0m	3.0-3.5m	3.0-3.5m
	3m	2.5-3.0m	2.5-3.0m	2.5-3.0m
	2.5m	2.0-3.0m	2.0-2.5m	2.0-2.5m
	2m	1.5-2.5m	1.5-2.0m	1.5-2.0m
	1.5m	1.0-1.5m	1.0-1.5m	1.0-1.5m
	1m	0.5-1.0m	0.5-1.0m	0.5-1.0m
	0.5m	0.0-0.5m	0.0-0.5m	0.0-0.5m
中感	4m	3.5-4.0m	3.0-3.5m	3.0-3.5m
	3m	2.5-3.0m	2.5m	2.5m
	2m	1.5-2.0m	1.5m	1.5m
	1m	0.0-0.5m	0.0-0.5m	0.0-0.5m
低感	4m	3.0-4.0m	2.5-3.0m	0.0m
	3m	2.0-3.0m	2.0-2.5m	0.0m
	2m	1.0-2.0m	1.0-1.5m	0.0m
	1m	0.0-1.0m	0.5m	0.0m

注意：以上测试数据基于 81 m²开间空间，1.6m 高测试人员以 0.3m/s 切向走向传感器直至触发所得。在不同空间下，不同体态的人以不同速度走向传感器的触发距离可能有所偏差。



APP使用说明



扫码下载
涂鸦APP



扫码下载
功能配置说明

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