



About Merrytek

Facing the sensor technology, which is one of the three pillars of modern information technology, together with communication technology and computer technology, we have only worked hard for 15 years from focusing on the microwave sensor market to the frontier exploration of space management, but it never stops.....

Merrytek was founded in 2011. It is an internationally renowned professional technology company that focused microwave sensor, research and development, manufacturing and sales.

In 2021, it won the qualification of 'National Specialized and Special New Little Giant Enterprise'

In 2022, it won the qualification of 'National Intellectual Property Advantage Enterprise'

In 2023, it won the qualification of 'Shenzhen Famous Brand'

The R&D team which is more than one-third of its personnel has been authorized more than 350 patents at home and abroad, and more than 150 patents have been applied in transit.







Leading innovation · sensing infinite

Fine cultivation microwave radar detection technology and application for 15 years.

Low impedance antenna international patent, crack the industry problem that traditional microwave sensor is vulnerable to WiFi, 5G, Bluetooth and other wireless signal interference environmental adaptability.

The international patent 5.8GHz microwave sensor is used for biological detection such as motion, minor-motion and breath signal.

24GHz millimeter wave human body Lifebeing sensor series is used for heartbeat signal detection, and unlocks microwave sensing. Used in many fields such as smart homes, smart buildings, smart elderly care, security

monitoring, etc.

R&D team: 95

Pre-research preparation: 7

Number of enterprises: 268

Company size: 11,000m²

Registered capital: 15 million

Headquarters Address: Shenzhen•Guangdong

Technological Evolution

2008

The first generation planar antenna microwave detection technology

It takes the lead in unlocking 5.8GHz planar micro-band antenna scheme in China to replace infrared induction matching luminaries and solve the problems of complex structure, short life and easy interference from environmental changes of induction luminaries.





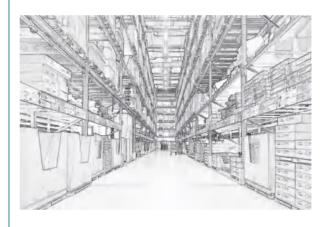




2015

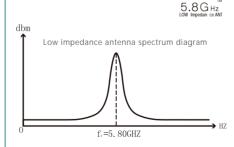
The first generation planar antenna high-mounted microwave detection technology

It is the first in the industrial and mining luminaries that supports 15m installation height, promoting the application of microwave induction energy saving schemes in high-roof environments such as warehouses, halls and museums.



The second generation planar antenna microwave detection technology

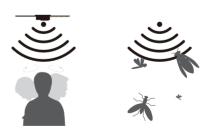
Resistance-capacitance step-down power supply, output positive and negative control relay, reduce stand-by power consumption, optimize product volume, reduce raw material cost.



2014

Minor-motion technique

It is the first microwave sensing in the industry that uses microwave to detect minor movement (head up, head shaking, body movement, etc.), laying a technical foundation for the presence of induction.



Minor-motion technique

Using the core patent algorithm to resist the breeze, drizzle, birds and mosquitoes caused by the false trigger, laying the foundation for outdoor application of microwave technology.

2017

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2018

Narrow planar microwave antenna

Miniaturized planar microwave induction antenna suitable for small size luminaries.

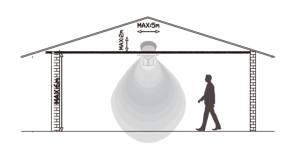




2020

Dipole antenna technology

Using dipole antenna, small opening size, high gain, large beam angle, widely used in tri-proof light, line lights, etc, to solve the problem that detection area is short and the performance is unstable in parking lot application



Daylight harvesting control technology Low impedance planar antenna technology Hybrid detection technology (Algorithm Breakthrough) 5.8GHz microwave breath presence detection technique

The industry is the first to use 5.8GHz, ISM microwave frequency band to detect the stationary presence of human body. The product adopts the 'dual-feed high-gain large-beam angel' low-impedance antenna independently developed by Merrytek. The product can resist 2.4GHz Bluetooth, WiFi, ZigBee and other wireless interference signals, and also has the ability to detect breathing signals when the human body is at rest to realize the human presence detection function.



The second generation planar antenna highmounted microwave detection technology Human body Lifebeing and posture recognition and detection technology

Adopt 60GHz millimeter wave radar 4D imaging technology and adopt Al algorithm and deep self-learning, adaptive algorithm! Identify human walking track and posture detection(fall detection) and human Lifebeing detection! Become the star product of the pension industry!

Differential antenna and new disturbance rejection algorithm technology

New antenna and differential balance mixing circuit, close to 0.1MW weak power current transmission, to achieve the compatibility of the same frequency band equipment, no interference, no wall, no glass, no self-excitation, suitable for indoor environment accurate detection and interval definition.





2022

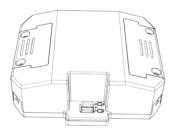
2019

Engineering control products development history



(iiii) 2015

Merrytek Technology is the first in the industry to launch human body micro-movement detection sensors, which are used in panel lights for office lighting.





(in) 2021

Merrytek issue second generation: 24GHz millimeter wave human presence sensor, adopts Merrytek independently designed radio frequency antenna '24GHz millimeter wave half-wave folding antenna' which with large detection angle and high gain. The product realizes the overlap of motion, micro-motion and presence detection distances, making it a highlight product in the industry.





(in) 2018

Merrytek Technolgy is the first in the industry to issue '5.8GHz human body lifebeing sensor' product, adopts Merrytek independently designed 'Low impedance dual-feed large-beam microwave module'. With technological breakthroughs and innovations, these products are widely used in smart offices, smart homes, and smart hotels related smart scenarios. With technological breakthroughs and innovations.





((3) 2023

Targeting different application scenarios in the industry, we have developed 'deep sleep sensors', 'human body occupancy sensors' and 'Al posture sensors'to enrich and improve sensor solutions in the field of smart buildings.



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Certification













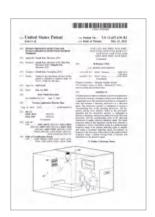


















Content

lifebeing presence sensor

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	MSA219D 485 B	26		

In follow page, Large-space presence sensor will be abbreviate as LS presence sensor; Medium-space presence sensor will be abbreviate as MS presence sensor; Small-space presence sensor will be abbreviate as SS presence sensor; Low-installation motion sensor will be abbreviate as LI motion sensor; High-installation motion sensor will be abbreviate as HI motion sensor

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Product Selection Guide

ON/OFF	MSA015S RC MSA202S RC MSA025S	MSA215 99 MSA001S 1 MSA003S RC	
Dry Contact	MSA219D 99 A MSA021D RC MSA200D RC MSA200 RC MSA219D 99 B	MSA215D 99 MSA300D 99 MSA001D E MSA003D RC	
Tuya Wireless Signal	MSA201 Z MSA201 B4 MSA035 Z1 MSA050 Z1 MSA219 Z1	MSA300 Z MSA219 W MSA053Z MSA220Z MSA219Z	
KNX	MSA056K 99	MSA206K 99	MSA017K RC
DALI	MSA205	MSA055	
RS485	MSA203D 485 MSA043D 485 MSA036D 485	MSA219D 485 A MSA219D 485 B MSA300D 485	
UART Protocol	MSA053	MSA201	
0-10V	MSA054 RF	MSA012	MSA012R

Application scenario guide

Smart Hotel

MS presence sensor+LS presence sensor













Rest area & Independent office area: MS presence sensor

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Public corridors: HI motion sensor

Smart Office

Public office areas: LS presence sensor

LS presence sensor+SS presence sensor+AI presence sensor



Smart home

LS presence sensor+MS presence sensor











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The human body lifebeing detection solution is based on 24GHz microwave breath detection technology. It uses patented low-impedance antenna+exclusive lifebeing sensing algorithm to realize human body lifebeing detection by detecting the expansion of the chest and abdomen when the human body breathes. At the same time, it can effectively avoid airflow interference from air conditioners, exhausts, etc., through algorithms and microwave detection, and then accurately identify the presence of human breathing.



Human body lifebeing sensor

Through radar detection of the weak ups and downs of the chest and abdomen of the human body when breathing, then determine whether the human body exists in the corresponding space:

Based on key technologies such as half-wave folding antennas and multi-array high-gain planar antennas created by Merrytek, we have launched five major LifeBeing sensor application technologies in response to the application problem of LifeBeing sensor in the market:

Deep sleep sensor (Suitable for presence detection in deep sleep state)

LifeBeing sensor (Suitable for presence detection in big space)

Occupancy sensor (Suitable for presence detection in small space)

Al posture sensor (Suitable for posture detection such as falling, standing, sitting, etc.)

Human body location sensor (Suitable for human body trajectory and presence detection)

We are committed to providing more comprehensive and reliable human LifeBeing sensor combination solutions for various application scenarios such as smart homes, smart hotels, smart offices and smart elderly care.

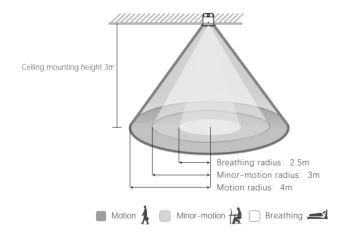
ON/OFF Version MSA015S RC

Presence sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Flush mounting, can highly integrated with space ceiling













Motion detection

Minor-motion

Breathing detection Daylight sensor









ON/OFF function

Flush mounting Resist flying insects 5 years warranty

Parameter

220V - 240V AC 50Hz / 60Hz [Working Voltage]

[Product Size] φ85 × 52mm

[Cut-size] φ70mm

[Max Detection Area] motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 5 -150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] ON/OFF

[Max Rated Load] 400W(Inductive)/800W(Resistive)

5.8GHz microwave presence detection [Detection Technology]

+ daylight detection

[Installation Mode] Flush mounting







Open office area

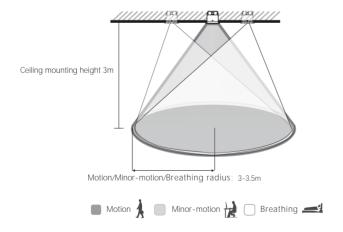
Office conference room

ON/OFF Version MSA202S RC

Product Features

- 24GHz millimeter wave presence detection technology, accurately realize space presence detection
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Original half-wave folding antenna, the maximum detection coverage of a single unit reaches 40 m
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Flush mounting, can highly integrated with space ceiling













Motion detection

Minor-motion detection

Breathing detection Daylight sensor









ON/OFF function

Flush/Surfac mounting

Resist flying insects 5 years warranty

Parameter

[Working Voltage] 220 - 240V AC 50Hz / 60Hz

[Product Size] $\phi 65 \times 51.5$ mm

Cut-size φ55mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 50 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] ON/OFF

[Max Rated Load] 400W(Inductive)/800W(Resistive)

[Detection Technology] 24GHz millimeter wave presence detection+ daylight detection

[Installation Mode] Flush/Surface mounting

(Need to choose surface-mounting box)





Kitchen

bathroom

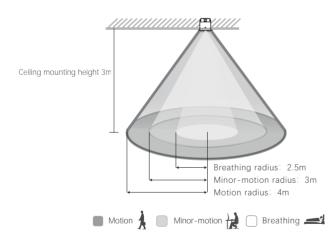
Dry Contact Version MSA021D RC

Presence sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Dry contact signal output, connect to various integrated control systems in seconds
- (iii) High-frequency microwave radar detection technology, which is not affected by light, heat, and water vapor, and can easily penetrate glass to detect













Motion detection

Minor-motion

Breathing detection Daylight sensor









ON/OFF function

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] φ85 × 52.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2 - 4m (typical value: 3m)

[Output Signal] NO/NC dry contact

5.8GHz microwave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting





Bedroom

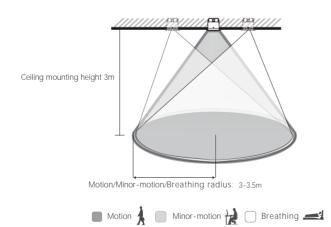
Guest room master bedroom

Dry Contact Version MSA219D 99 A

Product Features

- (a) 24GHz millimeter wave presence detection technology, accurately realize real human body presence detection
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Original half-wave folding antenna, the maximum detection coverage of a single unit reaches 40m2
- Sensor parameters can be set by MH10 remote control, it is convenient for pre-installation/post-installation debugging
- The sensor angle can be flexibly adjusted and is conveniently suitable for various home and commercial ceiling application scenarios.













Motion detection

Minor-motion

Breathing detection Daylight sensor

5_{Years}

Dry contact

Flush mounting

Angle adjustable 5 years warranty

Parameter

12 - 24V DC [Working Voltage]

[Working Current] ≤ 50mA

[Product Size] φ85 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 5 -150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

(Output Signal) NO/NC dry contact

24GHz millimeter wave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting





Independent office

Office conference room

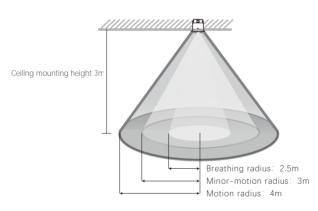
Dry Contact Version MSA021 RC

Presence sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Dry contact signal output, connect to various integrated control systems in seconds
- (iii) High-frequency microwave radar detection technology, which is not affected by light, heat, and water vapor, and can easily penetrate glass to detect





■ Motion Minor-motion Breathing ■









Motion detection

Minor-motion

Breathing detection Daylight sensor









ON/OFF function

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 50mA

[Product Size] φ85 × 52.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

5.8GHz microwave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting





Bedroom

Guest room master bedroom

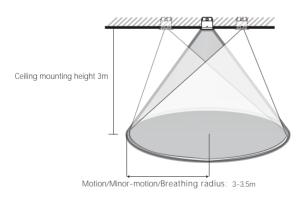
Dry Contact Version MSA200D RC

Product Features

- 24GHz millimeter wave presence detection technology, accurately realize real human body presence detection
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Original half-wave folding antenna, the maximum detection coverage of a single unit reaches 40m²
- Sensor parameters can be set by MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Dry contact signal output, connect to various integrated control systems in seconds



■ Motion Minor-motion Breathing ■











Motion detection

Minor-motion detection

Breathing detection Daylight sensor









Flush/Surfac mounting

Resist flying insects 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] $\phi 52.5 \times 34.5 \text{mm}$

[Max Detection Area] Motion/minor-motion/ Breathing 3.5m (radius)

[Daylight Sensor] 5 -150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Bedroom

Guest room master bedroom

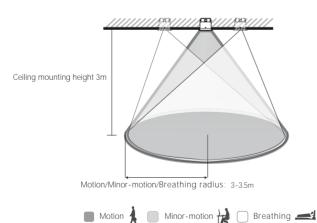
Dry Contact Version MSA200 RC

Presence sensor

Product Features

- (a) 24GHz millimeter wave presence detection technology, accurately realize real human body presence detection
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Original half-wave folding antenna, the maximum detection coverage of a single unit reaches 40m²
- Sensor parameters can be set by MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Dry contact signal output, connect to various integrated control systems in seconds













Motion detection

Minor-motion

Breathing detection Daylight sensor









Resist flying insects 5 years warranty

Parameter

100 - 240V AC 50Hz / 60Hz [Working Voltage]

[Working Current] ≤ 50mA

[Product Size] $\phi65 \times 51.5$ mm

[Cut-size] ω55mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

24GHz millimeter wave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Bedroom

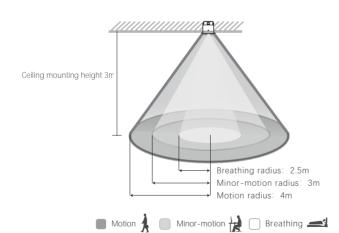
Guest room master bedroom

ON/OFF Version MSA025S

Product Features

- (iii) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Ultra-thin size, highly integrated integration of ceiling mounting and space ceiling













Motion detection

Minor-motio

Breathing detection Daylight sensor









ON/OFF function Surface mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Product Size] $\phi 110 \times 110 \times 32 \text{mm}$

[Max Detection Area] Motion 4m/minor-motion 3m

/Breathing 2.5m (radius)

[Daylight Sensor] 5 -150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] ON/OFF

[Max Load Capacity] 400W Inductive/800W Resistive

[Detection Technology] 5.8GHz microwave presence

detection+ daylight detection

[Installation Mode] Surface mounting





Independent office

Office conference room

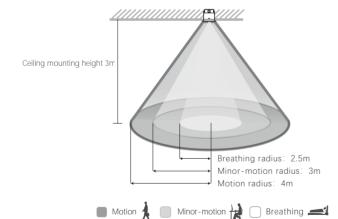
0-10V Version MSA012 R

Presence sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- It has daylight harvesting function to realize complementary adjustment of light and natural light.
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Support ON/OFF sensor and 0-10V dimming signal output













Motion detection

Minor-motion

Breathing detection Daylight sensor









0-10V dimming

Flush mounting

ON/OFF function 5 years warranty

Parameter

100 - 240V AC 50Hz / 60Hz [Working Voltage]

[Product Size] φ105 × 85mm

[Cut-size] φ75mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] ON/OFF /0-10V

[Max Load Capacity] 800W Inductive /

1000W Resistive (@277V)

5.8GHz microwave presence [Detection Technology]

detection + daylight harvesting

[Installation Mode] Flush mounting







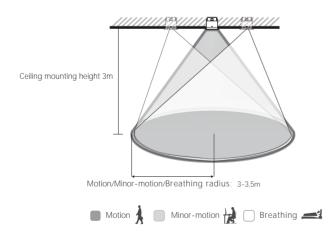
Office conference room

Tuya ZigBee Version MSA201 Z

Product Features

- (iii) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m, effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- Microsecond linkage with Tuya ZigBee 3.0 ecosystem to quickly switch intelligent application scenarios













Motion detection

Minor-motio detection

Breathing detection Daylight detection









Tuya ZigBee

Flush/Surface mounting

Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] $\phi 65 \times 49.5 \text{mm}$

[Cut-size] ϕ 55mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0-1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communicate Mode】 Tuya ZigBee 3.0

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

【Installation Mode】 Flush/Surface mounting

(Need to choose surface-mounting box)







Office conference room

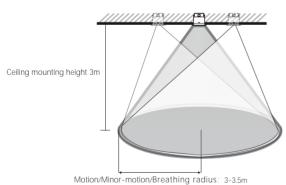
Tuya Bluetooth Version MSA201 B4

Presence sensor

Product Features

- 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- Microsecond linkage with Tuya Bluetooth ecosystem to quickly switch intelligent application scenarios















Motion detection

Minor-motion detection

Breathing detection Daylight detection









Tuya Bluetooth

Flush/Surfa mounting

Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] ϕ 65mm × 49.5

[Cut-size] ϕ 55mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0-1200Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communicate Mode】 Tuya Bluetooth

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Independent office

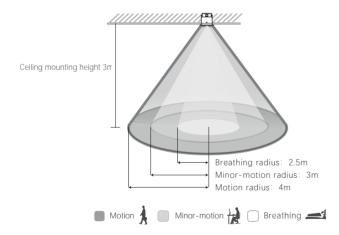
Office conference room

Tuya ZigBee MSA035 Z1

Product Features

- 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Microsecond linkage with Tuya ZigBee ecosystem to quickly switch intelligent application scenarios













Motion detection

Minor-motion

Breathing detection Daylight detection









Tuya ZigBee

Flush mounting Resist flying insects 5 years warranty

Parameter

100 - 240V AC 50Hz / 60Hz [Working Voltage]

[Working Current] ≤ 20mA

[Product Size] φ105 × 85mm

[Cut-size] φ75mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 0-1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] Tuya ZigBee 3.0

5.8GHz microwave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting





Kitchen

Bathroom

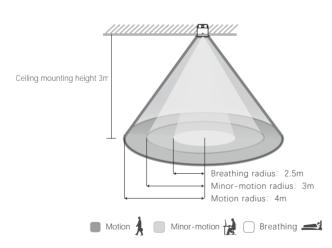
Tuya ZigBee **MSA050 Z1**

Presence sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Microsecond linkage with Tuya ZigBee ecosystem to quickly switch intelligent application scenarios













Motion detection

Minor-motion

Breathing detection Daylight detection









Surface mounting Resist flying insects 5 years warranty

Parameter

100 - 240V AC 50Hz / 60Hz [Working Voltage]

[Working Current] ≤ 20mA

[Product Size] φ110 × 32mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] Tuya ZigBee 3.0

[Detection Technology] 5.8GHz microwave presence

detection+ daylight detection

[Installation Mode] Surface mounting







Independent office

Office conference room

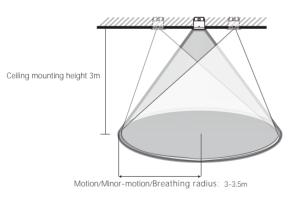
UART Protocol MSA201

Product Features

- (a) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- Serial port signal output, supports docking with any communication module



■ Motion Minor-motion Breathing ■











Motion detection

Minor-motion

Breathing detection Daylight detection











Smart linkage

Flush/Surface

Resist flying insects 5 years warranty

Parameter

100 - 240V AC 50 / 60Hz [Working Voltage]

[Working Current] ≤ 20mA

[Product Size] φ65 × 49.5mm

[Cut-size] ω55mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] UART serial port, support customer-

supplied communication module docking

24GHz millimeter wave presence Detection Technology

detection+ daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Independent office

Living room

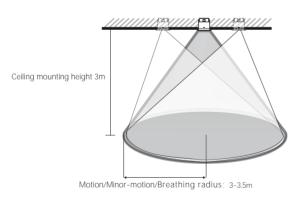
Tuya ZigBee **MSA219 Z1**

Presence Sensor

Product Features

- (a) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios















Motion detection

Breathing detection Daylight detection









Tuya ZigBee

Flush mounting

Angle adjustable 5 years warranty

Parameter

100 - 240V AC 50 / 60Hz [Working Voltage]

[Working Current] ≤ 20mA

[Product Size] φ85 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/ Breathing 3.5m (radius)

0 -1200 Lux [Daylight Sensor]

[Mounting Height] 2-4m (typical value: 3m)

Tuya ZigBee 3.0 [Communicate Mode]

24GHz millimeter wave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting





Hotel bedroom

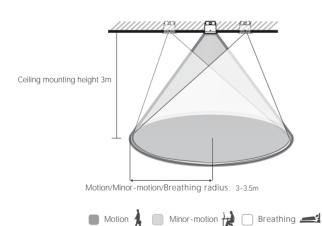
Guest room leisure area

RS485 MSA203D 485

Product Features

- (a) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- RS485 signal output, support docking with any RS485 system













Motion detection

Breathing detection Daylight detection









RS485 communication

Resist flying insects 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] ϕ 52.5 × 34mm

[Cut-size] ω45mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] RS485

24GHz millimeter wave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)







Independent office

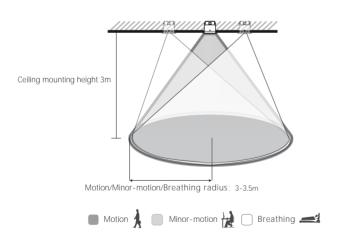
Office conference room

KNX MSA206K 99

Product Features

- (a) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- (in) KNX signal output, microsecond linkage with KNX ecosystem to quickly switch smart application scenarios
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management













Motion detection

Breathing detection Daylight detection









communication

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] Auxiliary power port: 12 - 24V DC

[Working Current] ≤ 55mA

[Product Size] φ89 × 34mm

[Cut-size] φ60mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0 - 65535 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] KNX communication

24GHz millimeter wave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting







Guest bathroom

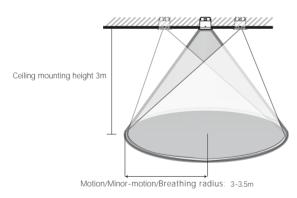
Guest room leisure area

DALI 2.0 MSA205

Product Features

- (a) 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- Integrated digital light detection, combined with DALI 2.0 host, can realize light adaptive function
- The human body LifeBeing sensor range is up to 40m², effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping.
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- DALI 2.0 communication, microsecond linkage DALI lighting control scene















Motion detection

Minor-motion

Breathing detection Daylight detection









DALI 2.0

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100-240V AC 50Hz / 60Hz

[Product Size] φ105 × 85mm

[Cut-size] φ75mm

[Max Detection Area] Motion/minor-motion/ Breathing 3.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] DALI 2.0 communication

Detection Technology 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Independent office

Large conference room

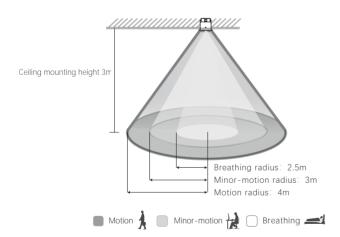
KNX MSA017K RC

Presence Sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Supports ETS setting of sensor parameters, portable preinstallation/post-installation debugging
- Microsecond linkage with KNX ecosystem to guickly switch automation scenarios
- Compatible with flush mounting and 86 bottom box installation













Motion detection

Minor-motion

Breathing detection Daylight detection

ŔNX







KNX communication

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 21 - 30V DC

[Working Current] ≤ 15mA

[Product Size] φ89 × 34mm

[Cut-size] φ60mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 0 - 65535 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communicate Mode] KNX bus communication

5.8GHz microwave presence [Detection Technology]

detection+ daylight detection

[Installation Mode] Flush mounting







Independent office

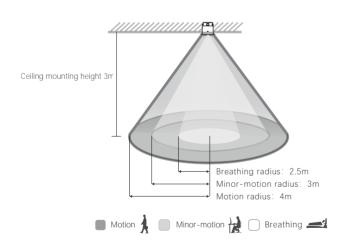
Large conference room

RS485 MSA043D 485

Product Features

- 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Supports RS485 protocol, remote control (MH10) to set sensor parameters, it is convenient for pre-installation/post-installation debugging
- RS485 signal output, supports docking with any RS485 system
- © Compatible with flush mounting and 86 bottom box installation













Motion detection

Minor-motion detection

Breathing detection Daylight detection

485





RS485 Flush mo

Flush mounting Resist flying insects 5 years warranty

Parameter

Working Voltage 12 - 24V DC

[Working Current] ≤ 30mA

[Product Size] $\phi 89 \times 34$ mm

Cut-size φ60mm

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communicate Mode】 RS485

[Detection Technology] 5.8GHz microwave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Living room

Bathroom

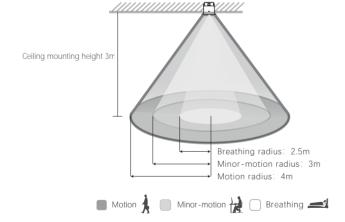
RS485 MSA036D 485

Presence Sensor

Product Features

- (iii) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Supports RS485 protocol, remote control (MH10) to set sensor parameters, it is convenient for pre-installation/post-installation debugging
- RS485 signal output, supports docking with any RS485 system













Motion detection

Minor-motion detection

Breathing detection Daylight detection







RS485

Surface mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

【Working Current】 ≤ 30mA

[Product Size] $\phi 105 \times 23 \text{mm}$

[Max Detection Area] Motion 4m/minor-motion 3m/

Breathing 2.5m (radius)

[Hold Time] 2s - 7200s

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communicate Mode】 RS485

[Detection Technology] 5.8GHz microwave presence

detection+ daylight detection

[Installation Mode] Surface mounting





Living room

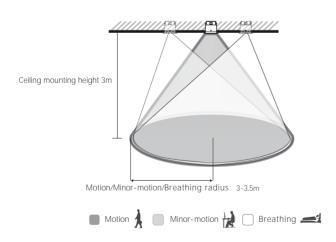
Bathroom

RS485 MSA219D 485 A

Product Features

- Autonomous driving level 24GHz millimeter wave radar detection technology, the first choice for presence detection in large spaces
- The human body LifeBeing sensor range is up to 40m, effectively realizing one sensor for full-space management
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- RS485 signal output, supports docking with any RS485 system
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios













Motion detection

Minor-motio detection

Breathing detection Daylight detection







RS485

Flush mounting

Angle adjustable 5 years warranty

ing Angle adjustable 5 years warra

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] $\phi 85 \times 43.5$ mm

[Cut-size] ϕ 70mm

[Max Detection Area] Motion/minor-motion/

Breathing 3.5m (radius)

[Daylight Sensor] 0 -1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communicate Mode】 RS485

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Living room

Dining room

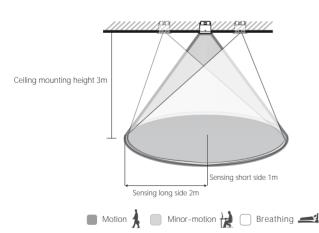
Dry Contact Version MSA219D 99 B

Deep Sleep Sensor

Product Features

- Multi-array high-gain 24G millimeter wave planar antenna technology, dedicated for deep sleep Presence detection
- Within the confines of one bed and presence detection area, No loss of human presence signal
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- Dry contact signal output, connected to various integrated control systems in seconds
- The sensor angle can be flexibly adjusted and is conveniently suitable for various home and commercial ceiling application scenarios.













Motion detection

Minor-motion

Breathing detection Daylight sensor

485

5_{Years}

RS485

Flush mounting

Angle adjustable

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] φ85 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 2m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

[Detection Technology] 24GHz millimeter wave human body

sleep Presence detection+ daylight

detection

Flush mounting [Installation Mode]





Guest room master bedroom Guest room leisure area

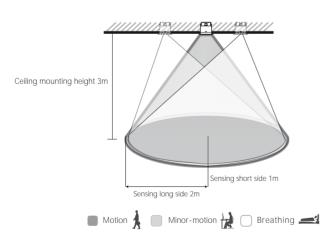
Deep Sleep Sensor

Tuya ZigBee MSA220Z

Product Features

- Multi-array high-gain 24G millimeter wave planar antenna technology, dedicated for deep sleep Presence detection
- Within the confines of one bed and presence detection area, No loss of human presence signal
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- Microsecond linkage with Tuya ZigBee ecosystem to quickly switch automation scenario













Motion detection

Breathing detection Daylight detection











Resist flying insects 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] φ65 × 49.5mm

[Cut-size] φ55mm

[Max Detection Area] Motion/minor-motion/

Breathing 2m (radius)

[Daylight Sensor] 0-1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communication Mode] Tuya ZigBee3.0

[Detection Technology] 24GHz millimeter wave human body

sleep Presence detection+ daylight

detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Guest room master bedroom Guest room leisure area

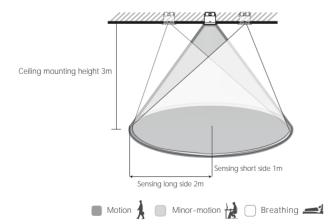
Tuya ZigBee **MSA219Z**

Deep Sleep Sensor

Product Features

- Multi-array high-gain 24G millimeter wave planar antenna technology, dedicated for deep sleep Presence detection
- Within the confines of one bed and presence detection area, No loss of human presence signal
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- Supported by light detection technology, personalized definition of multiple application scenarios linkage
- The sensor angle can be flexibly adjusted and is conveniently suitable for various home and commercial ceiling application scenarios.













Motion detection

Minor-motion

Breathing detection Daylight detection











Flush/Surface

Angle adjustable 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] $\phi 80 \times 43.5$ mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 2m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communication Mode] Tuya ZigBee3.0

[Detection Technology] 24GHz millimeter wave human body

sleep Presence detection+ daylight

detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Guest room master bedroom Guest room leisure area

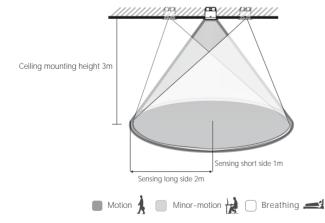
Deep Sleep Sensor

RS485 MSA219D 485 B

Product Features

- Multi-array high-gain 24G millimeter wave planar antenna technology, dedicated for deep sleep Presence detection
- Within the confines of one bed and presence detection area, No loss of human presence signal
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- RS485 signal output, support docking with any RS485 system
- The sensor angle can be flexibly adjusted and is conveniently suitable for various home and commercial ceiling application scenarios.













Motion detection

Minor-motion detection

Breathing detection Daylight detection

485







RS485

Flush mounting

nounting Angle adjustable 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 50mA

[Product Size] $\phi 80 \times 43.5$ mm

Cut-size φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 2m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] RS485

[Detection Technology] 24GHz millimeter wave human body

sleep Presence detection+ daylight

detection

[Installation Mode] Flush mounting





Guest room leisure area

Guest room leisure area

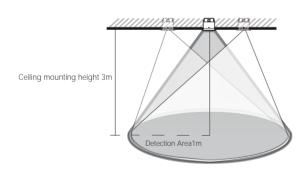
Dry Contact Version MSA215D 99

Occupancy Sensor

Product Features

- Accurate detection of human body occupancy status, No loss of human presence signal
- Detection diameter ≤1m, dedicated for presence detection
- The first choice for work station/toilet station detection needs
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- Dry contact signal output, connected to various integrated control systems in seconds















Motion detect

Minor-motion detection

Breathing detection Daylight sensor







ry contact Flush mounting

ng Angle adjustable 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

【Working Current】 ≤ 50mA

[Product Size] $\phi 85 \times 52.5$ mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 1m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Shared workstations

Public toilet

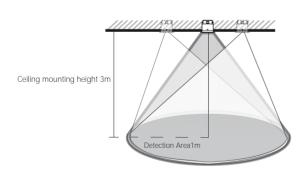
Occupancy Sensor

ON/OFF Version MSA215 99

Product Features

- Accurate detection of human body occupancy status, No loss of human presence signal
- Detection diameter ≤1m, dedicated for presence detection
- The first choice for work station/toilet station detection needs
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- 400W inductive/800W resistive load carrying capacity















Motion detection

Minor-motion detection

Breathing detection Daylight sensor









ON/OFF function

F function Flush mount

Flush mounting Resist flying insects 5 years warranty

Parameter

[Working Voltage] 220 - 240V AC 50Hz / 60Hz

[Product Size] $\phi 85 \times 52.5$ mm

[Cut-size] ϕ 70mm

[Max Detection Area] Motion/minor-motion/ Breathing 1m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Shared workstations

Public toilet

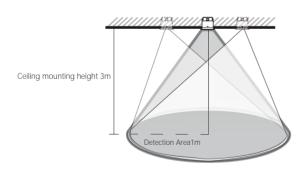
Dry Contact Version MSA300D 99

Occupancy Sensor

Product Features

- Precision medical grade 60GHz radar detection technology, No loss of human presence signal
- Detection diameter ≤1m, dedicated for presence detection
- The first choice for work station/toilet station detection needs
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- The sensor boundary is clear, "zero false trigger" and "zero missed"
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios















Breathing detection Daylight sensor



5_{Years}

Dry contact Flush mounting

Angle adjustable 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 300mA

[Product Size] φ80 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/ Breathing 1m (radius)

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

[Detection Technology] 60GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Shared workstations

Public toilet

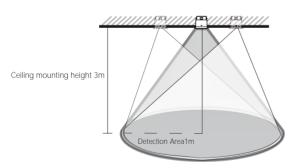
Occupancy Sensor

Tuya ZigBee **MSA300 Z**

Product Features

- Precision medical grade 60GHz radar detection technology, No loss of human presence signal
- Detection diameter ≤1m, dedicated for presence detection
- The first choice for work station/toilet station detection needs
- Microsecond linkage with Tuya ZigBee ecosystem to quickly switch automation scenarios
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios
- The sensor boundary is clear, "zero false trigger" and "zero missed"















Motion detection

Breathing detection Daylight detection









Flush/Surface

Angle adjustable 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 30mA

[Product Size] φ80 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/ Breathing 1m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communication Mode] Tuya ZigBee 3.0

[Detection Technology] 60GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting







Shared workstations

Public toilet

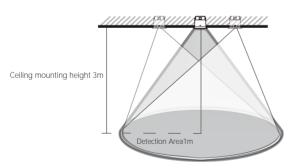
RS485 Version MSA300D 485

Occupancy Sensor

Product Features

- Precision medical grade 60GHz radar detection technology, No loss of human presence signal
- Detection diameter ≤1m, dedicated for presence detection
- The first choice for work station/toilet station detection needs
- RS485 signal output, support docking with any RS485 system
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios
- The sensor boundary is clear, "zero false trigger" and "zero missed"















Motion detection

Breathing detection Daylight detection

485





RS485

Flush mounting

Angle adjustable 5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 300mA

[Product Size] φ80 × 43.5mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 1m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] RS485

[Detection Technology] 60GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting







Shared workstations

Public toilet

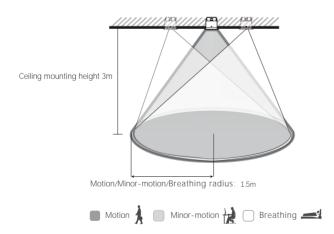
Al Posture Sensor

Tuya WiFi MSA219 W

Product Features

- Precision medical grade 60GHz radar detection technology, with fall alarm function
- The fall detection accuracy is as high as 99.9%, No loss of human presence signal
- The first choice for health and elderly care monitoring detection
- The detection ranges of motion, minor-motion, and presence sensors are highly overlapping
- The sensor angle can be flexibly adjusted, making it suitable for all types of home, commercial ceilings and application scenarios













Motion detection

n Minor-motion detection

Breathing detection Fall detection









contact Flush me

Flush mounting

Angle adjustable 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC

【Working Current】 ≤ 30mA

[Product Size] $\phi 80 \times 43.5$ mm

[Cut-size] φ70mm

[Max Detection Area] Motion/minor-motion/

Breathing 1.5m (radius)

[Daylight Sensor] 0 - 1200 Lux

[Mounting Height] 2-4m (typical value: 3m)

【Communication Mode】 Tuya Wi-Fi

[Detection Technology] 60GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Nursing home bathroom

Nursing home single room

Microwave Motion Sensor

Through radar detection of the human body's motion in space, the presence or absence of the human body in the corresponding space can be determined. Based on the key technologies of low-impedance anti-interference antenna and high-gain planar antenna pioneered by Merrytek, we have issued two major mobile sensor application technologies in response to the application problem of mobile sensor in the market:

Low Mounting Motion Sensor (Suitable for sites with an installation height of 3mt);
High mounting motion sensor (Suitable for scenarios with installation heights above 6m)

Committed to application scenarios from home to business, providing reliable human movement sensor solutions with stronger anti-interference capabilities.

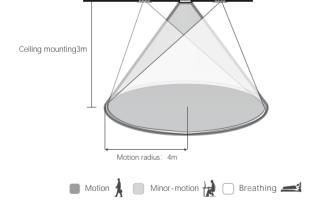
Low Mounting Motion Sensor

ON/OFF Version MSA001S 1

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Sensor parameters can be set by dip switch MH10 remote control, it is convenient for pre-installation/post-installation debugging
- 400W inductive/800W resistive load carrying capacity
- High-frequency microwave radar detection technology is not affected by light, heat, and water vapor, and can easily penetrate glass for detection













Motion detection

Parameter









Resist flying insects

Flush/Surface

ON/OFF function 5 years warranty

Parameter

220 - 240V AC 50Hz / 60Hz [Working Voltage]

[Product Size] φ65 × 51.5mm

[Cut-size] φ55mm

[Max Detection Area] Motion 4m (Radius)

[Daylight Sensor] 5 - 50Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] ON/OFF

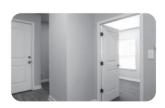
[Max Rated Load] 400W Inductive/800W Resistive

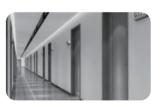
[Detection Technology] 5.8GHz microwave human body motion

detection + daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Entrance

Corridor

Dry Contact Version MSA001D E

Low Mounting Motion Sensor

Product Features

- (6) 5.8GHz microwave presence detection technology, accurately detects human body's motion, minor-motion and breath signal Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Sensor parameters can be set by MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Dry contact signal output, connects to various integrated control systems in seconds
- High-frequency microwave radar detection technology is not affected by light, heat, and water vapor, and can easily penetrate glass for detection
- Ultra-small opening size allows for hidden ceiling installation









Parameter

Daylight sensor







Not affect by

5_{Years}

5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 30mA

[Product Size] ϕ 52.5 × 34.5mm

[Cut-size] φ45mm

[Max Detection Area] Motion 4m (Radius)

[Daylight Sensor] 5 - 50 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] NO/NC dry contact

(Detection Technology) 5.8GHz microwave human body motion

detection + daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)

Application

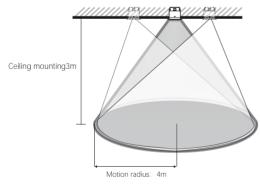




Entrance

Corridor





Motion Minor-motion Breathing

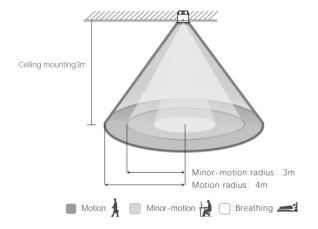
Low Mounting Motion Sensor

0-10V Version **MSA012**

Product Features

- (iii) With daylight harvesting function, the lamp can automatically adjust to external light.
- Patent low impedance antenna, which can effectively resist the interference such as 5G, Wi-Fi and other wireless signal
- Sensor parameters can be set by dip switch and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Support ON/OFF sensor and 0-10V dimming signal output 5.8GHz microwave presence detection technology, accurately detects
- human body's motion, minor-motion and breath signal













Motion detection

Daylight harvesting









Flush mounting Resist flying insects 5 years warranty

Parameter

100 - 277V AC 50Hz / 60Hz [Working Voltage]

[Product Size] φ105 × 85mm

[Cut-size] φ75mm

[Detection Area] Motion 4m / Minor-motion 3m(Radius)

[Daylight Sensor] 0 - 1200 Lux

2-4m (typical value: 3m) [Mounting Height]

[Stand-by dimming] 10% / 20% / 30% / 50%

[Max Rated Load] 800W(Inductive)/1000W(Resistive)

[Output Signal] ON/OFF sensor /0-10V

[Detection Technology] 5.8GHz microwave human body motion

detection + daylight detection

[Installation Mode] Flush mounting





Open office area

Large conference room

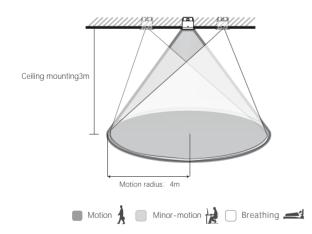
Tuya ZigBee **MSA053Z**

Low Mounting Motion Sensor

Product Features

- (a) 24GHz millimeter wave detection technology, achieve precise mobile detection
- Sensor parameters can be set by APP and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Flush mounting can highly integrated with space ceiling
- Millimeter wave radar detection technology is not affected by light and hot water vapor
- Microsecond linkage with Tuya ZigBee ecosystem to guickly switch automation scenarios













5 years warranty

Daylight detection











Parameter

[Working Voltage] 220 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] φ65 × 46mm

[Cut-size] φ55mm

[Detection Area] Motion 4m (Radius)

0 - 1200 Lux [Daylight Sensor]

2-4m (typical value: 3m) [Mounting Height]

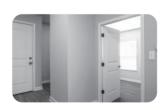
[Communication Mode] Tuya ZigBee 3.0

[Detection Technology] 24GHz millimeter wave human body

motion detection + daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Entrance

Corridor

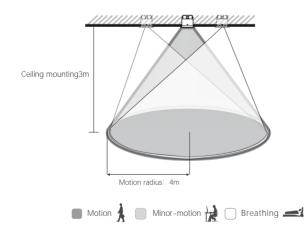
Low Mounting Motion Sensor

UART Protocol MSA053

Product Features

- (a) 24GHz millimeter wave detection technology, achieve precise mobile detection
- Sensor parameters can be set by APP and MH10 remote control, it is convenient for pre-installation/post-installation debugging
- Flush mounting can highly integrated with space ceiling
- Millimeter wave radar detection technology is not affected by light and hot water vapor
- Microsecond linkage with Tuya ZigBee ecosystem to quickly switch automation scenarios













UART serial port

Daylight detection











Not affect by

5 years warranty

Parameter

[Working Voltage] 220 - 240V AC 50Hz / 60Hz

[Working Current] ≤ 20mA

[Product Size] φ65 × 46mm

[Cut-size] φ55mm

[Detection Area] Motion 4m (Radius)

0 - 1200 Lux [Daylight Sensor]

2-4m (typical value: 3m) [Mounting Height]

[Communication Interface] UART serial port, support customer

-supplied communication module

docking

24GHz millimeter wave human body [Detection Technology]

motion detection + daylight detection

[Installation Mode] Flush/Surface mounting (Need to

choose surface-mounting box)





Entrance

Corridor

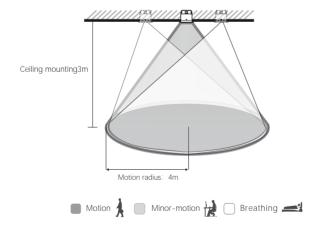
DALI 2.0 MSA055

Low Mounting Motion Sensor

Product Features

- (6) 5.8GHz radar detection technology, achieve precise human body motion detection signal
- DALI bus power supply, support DALI 2.0 wired communication
- Flush mounting can highly integrated with space ceiling
- High-frequency microwave radar detection technology is not affected by light and hot water vapor
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage













DALI 2.0

DALI bus power supply

Daylight detection









5_{Years}

Flush mounting

5 years warranty

Parameter

[Working Voltage] DALI bus power supply

[Working Current] ≤ 10mA

[Product Size] φ65 x 49.5mm

[Cut-size] φ55mm

[Detection Area] Motion 4m (Radius)

[Daylight Sensor] 0 - 1200Lux

[Mounting Height] 2-4m (typical value: 3m)

[Output Signal] DALI 2.0

[Detection Technology] 5.8GHz microwave presence detection+ daylight detection

[Installation Mode] Flush/Surface mounting(Need to

choose surface-mounting box)





Entrance

Corridor

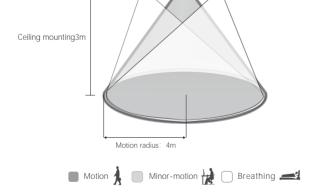
Low Mounting Motion Sensor

KNX MSA056K 99

Product Features

- 5.8GHz radar detection technology, achieve precise human body motion detection signal
- (NX bus power supply, support KNX wired communication
- Flush mounting can highly integrated with space ceiling
- High-frequency microwave radar detection technology is not affected by light and hot water vapor
- Supported by digital light detection technology, personalized definition of multiple application scenarios linkage
- Compatible with ceiling recessed installation and 86 bottom box installation













otion detecti

KNX

KNX bus

Daylight detection









5 Years Guarantee

Resist flying insects Flush mounting

Not affect be

5 years warranty

Parameter

[Working Voltage] 21 - 30V DC

[Working Current] ≤ 10mA

[Product Size] $\phi 89 \times 34$ mm

Cut-size φ60mm

[Detection Area] Motion 4m (Radius)

[Daylight Sensor] 0 - 65535 Lux

[Mounting Height] 2-4m (typical value: 3m)

[Communication Interface] KNX bus communication

[Detection Technology] 5.8GHz microwave presence

detection+ daylight detection

[Installation Mode] Flush mounting





Hotel hallway

Guest room entrance

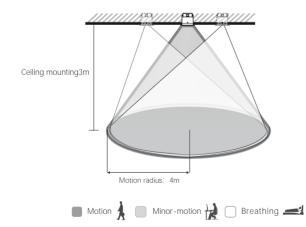
0-10V MSA054 RF

Low Mounting Motion Sensor

Product Features

- 24GHz microwave motion detection technology, achieve precise human body motion detection signal
- Integrated light detection technology to effectively identify day and night and achieve on-demand sensing
- Adopts 868 RF wireless communication, can easily realize master-slave group control
- Sensor parameters can be set by dip switch, it is convenient for preinstallation/post-installation debugging
- Support ON/OFF sensor and 0-10V dimming signal output













otion detection

868 RF

-10V D

Daylight sens









Resist flying insects ON/OFF function

Flush mounting

5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

(Product Size) $\varphi 105 \times 85$ mm

Cut-size φ75mm

[Max Detection Area] Motion 4m (Radius)

[Stand by dimming] 10% / 20% / 30% / 50%

[Daylight Sensor] 50 Lux / Disable

[Mounting Height] 2-4m (typical value: 3m)

[Max Rated Load] 400W Inductive/800W Resistive

[Output Signal] Strong current/0-10V

[Detection Technology] 24GHz millimeter wave presence

detection+ daylight detection

[Installation Mode] Flush mounting







Warehouse storage area

High mounting motion sensor

Dry Contact Version MSA003D RC

Product Features

in seconds

- (6) 5.8GHz microwave detection technology, achieve precise human body motion detection signal
- Motion detection







Integrated light detection technology to effectively identify day and night

and achieve on-demand sensing

power supply

Daylight sensor

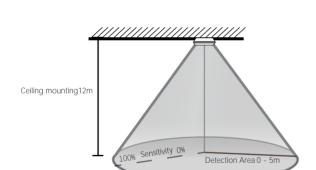
Support 3-12m high-altitude mounting height motion detection





Dry contact output, connect to various integrated control systems













Resist flying insects Flush mounting

5 years warranty

Parameter

[Working Voltage] 12 - 24V DC

[Working Current] ≤ 60mA

[Product Size] 110 x 110 x 32mmx

[Max Detection Area] Motion 5m

[Daylight Sensor] 5-150 Lux/Disable

[Mounting Height] 3-12m (typical value: 10m)

[Output Signal] NO/NC dry contact

5.8GHz microwave presence detection Detection Technology

[Installation Mode] Flush mounting





Warehouse

Factory

ON/OFF Version MSA003S RC

High mounting motion sensor

Product Features

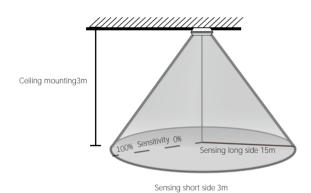
- (6) 5.8GHz microwave detection technology, achieve precise human body motion detection signal
- Integrated light detection technology to effectively identify day and



















Motion detection

Long and short









Load capacity

Surface mounting 5 years warranty

Parameter

[Working Voltage] 100 - 240V AC 50Hz / 60Hz

[Product Size] 110 × 110 × 32mm

[Max Detection Area] Sensor long side 15m,

sensor short side 3m

[Daylight Sensor] 5 - 150 Lux / Disable

[Mounting Height] 2-10m (typical value: 9m)

[Output Signal] ON/OFF

[Max Rated Load] 400W Inductive/800W Resistive

Detection Technology 5.8GHz microwave presence detection

[Installation Mode] Surface mounting



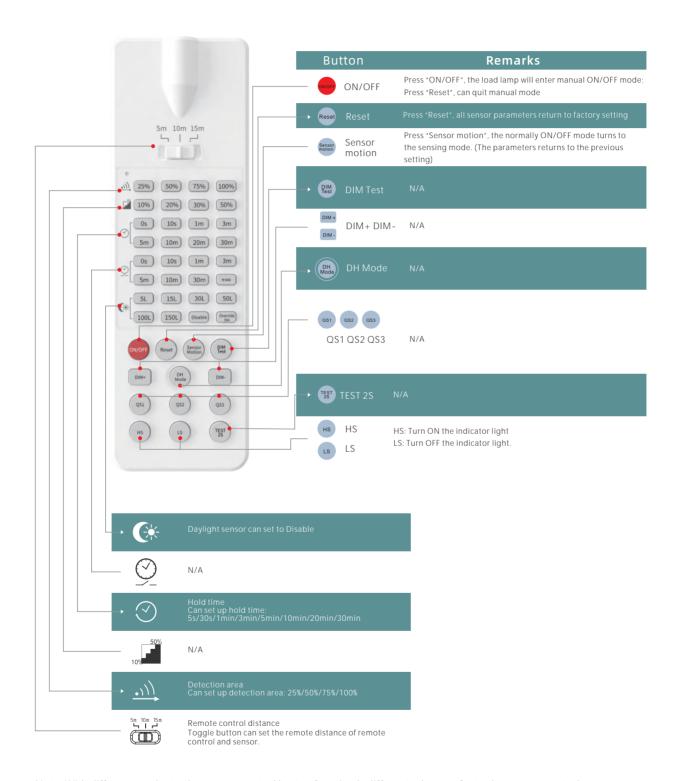


Corridor

Aisle

Remote control series

Remote control MH10



Note: With different products, the remote control button function is different, please refer to the remote control instructions in the specification of products





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