MSA017K

LifeBeing sensor™

Breathing Detecting Technology/Dry Contact

- Innovative patent energy-saving switch, control lights ON-OFF automatically. Traditional switch is needless.
- A very sightly movement even human breathing can be collected, never worry a sudden shut-off when light is necessary.
- Interference-free with flying insects, falling leaves, air vent and wireless signal (WiFi, Bluetooth, 4G and 5G).
- Adjustable detecting settings, suitable for various places, such as toilet, kitchen, office, library, corridor etc..

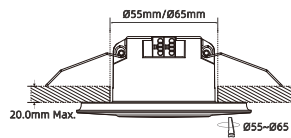| ON/OFF function | Normal motion detecting | Minor motion detecting | Daylight threshold | 5 Year Guarantee | Anti-interference | Breathing & heartbeat detecting |

MSA017K

merrytek ®
INTELLIGENT LIGHTING CONTROL

5.8G Hz ™
LOW Impedance ANT

KNX ®

CE μ RED

Specification

Rated Voltage	24-30v dc (KNX bus power supply)
Working Current	15mA max (@30V DC)
Detecting Technology	Movement / minor motion / breathing
Communication Method	KNX standard communication protocol
Operating Frequency	5.8 GHz ±75 MHz, ISM band
Transmitting Power	0.5mW Max.
Operating Temperature	-25~50℃
IP Rating	IP20
Cut Size	φ55-65mm
Installation Mode	Embedded installation

Ø55mm/Ø65mm
20.0mm Max.
Ø55~Ø65

LifeBeing sensor
--Breathing Detecting Technology/ON-OFF

MSA017K is an innovative and active motion sensor detector with HF system 5.8G Hz. Which is built in motion sensor and daylight senor to control light, motor or other electronic device, to achieve intelligent control and energy-saving.
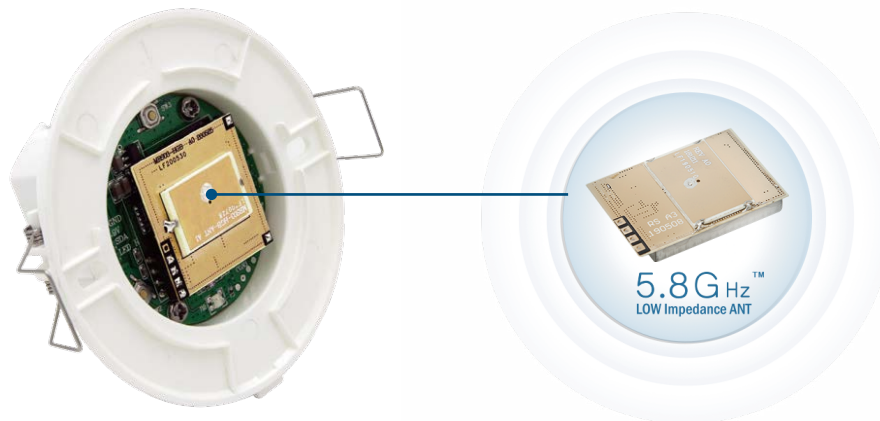
■ Movement signal active

■ Minor motion & Breathing signal maintains

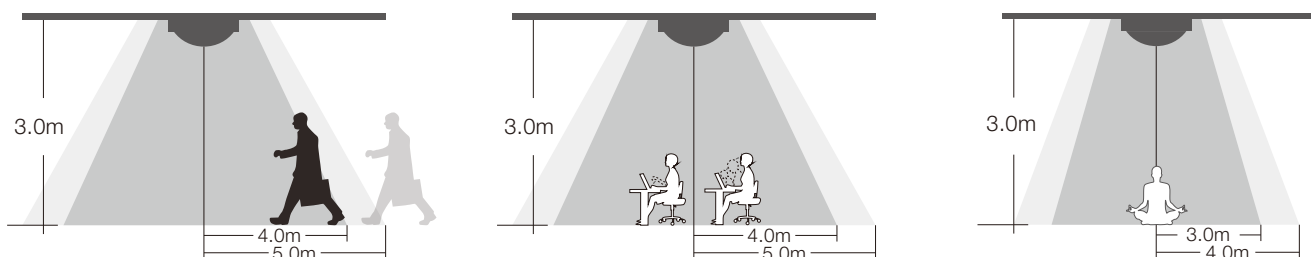## Breathing test instructions:

Merrytek's Lifebeing Sensor is based on 5.8Ghz microwave motion detection technology. The patented low impedance antenna and exclusive occupancy sensing algorithm are used to detect human existence by detecting the expansion of the chest and abdomen during human respiration. At the same time, the algorithm and microwave detection can effectively avoid the airflow interference from air conditioning and exhaust, which achieves accurately identify the occupancy of human being. No matter in any mode of activity, meeting, reading, writing, rest or static meditation.

1. Patent Low Impedance Antenna

Anti-interference

Bluetooth

2.4G/5G WIF

5G

5.8G Hz™
LOW Impedance ANT

■ Patent Low Impedance Antenna
Comply with the latest RED directive
Interference-free with flying insects, falling leaves, air vent and wireless
signal (WiFi, Bluetooth, 4G and 5G)

2. Detection Pattern

3.0m   4.0m   5.0m

3.0m   4.0m   5.0m

3.0m   3.0m   4.0m

■ Movement Detecting
Speed 0.3m/s

■ Minor Motion Detecting

■ Breathing Detecting

3. Application

Classroom   Office   Corridor   Meeting Room   Staircase