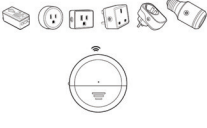


42020S0401

Wireless Radar Sensor Switch
(433MHz)
User Manual



Note: Water bottle cage is not included and must be purchased separately. Product image is for illustration purposes only. Actual product may vary.

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: 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: The Dealer is not responsible for any changes or modifications not expressly approved by the party responsible for compliance, such modifications could void the user's authority to operate the equipment.

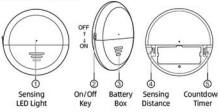
The device has been evaluated to meet general RF exposure requirements.

1. Installation Guidelines of Radar Switch

- Install indoors only. Keep away from sunlight, rain, and areas with high humidity or pollution.
- Avoid installing the radar switch inside metal housings, which may block signals.
- Do not place the device toward AC drives or near AC wires, rectifiers, or other power lines.
- Avoid installing the radar switch facing large metal equipment or pipes.
- When installing multiple radar switches, keep them parallel, avoid facing each other, and maintain at least 1 m distance between switches.
- Keep a minimum distance of 3 m between the radar switch and Wi-Fi routers.

2. Appearance and Structure of Radar Switch

2.1 Radar Switch



3. Radar Switch Instructions

3.1.1 Configure Sensing Distance / Light-Off Countdown Timer

The sensing distance can be set to four levels: **2m, 4m, 6m, or 8m.**

Example: Level 3 corresponds to 6m.



3.1.2 Set Light-Off Countdown Timer

3.1.2.1 The light-off timer can be set to 4 levels: **AUTO, 5 min, 15 min, or 30 min.**

Example: Level 3 corresponds to 15 min.

3.1.2.2 **AUTO Mode**

- During the daytime or in bright areas, the light remains in its preset state when motion is detected.
- The light turns on at night upon detecting movement and shuts off automatically if no motion is sensed for 5 minutes.

3.2.3 Countdown Mode (8/15/30 minutes) :

- The light activates on movement, unaffected by ambient light, and switches off after the preset time.

3.1.3 Configure sensing distance

The sensing distance can be set to four levels: **2m, 4m, 6m, or 8m.**

Example: Level 3 corresponds to 6m.



3.2 Radar Switch Installation

3.2.1 Install the radar switch in the aisle or doorway to be monitored. Clean the surface, peel off the double-sided tape, and stick the switch in place.

3.2.2 The radar switch senses motion in its range and activates when a human-like signal is detected.

3.1.3.2.2 **Sensing Angle and Distance:**

Sensing distance: about 2-8 meters (depending on the environment)

Sensing angle: around 120° frontal coverage.

- The light turns on at night upon detecting movement and shuts off automatically if no motion is sensed for 5 minutes.

5. Radar Switch Low Battery Indication

When the battery is low, the LED flashes every 3 seconds, and the radar is inactive. Replace the batteries promptly.



6. Radar Switch Technical Parameters

Model	KS-WLS04
Dimension	2.91x2.91x0.51in
Battery	2*AAA alkaline battery
Lifespan of Battery	about 15 months
Standby power consumption	<92 uA
Working power consumption	<15 mA
Working frequency	433.92 MHz
Wireless Range	~80m (Open Space)
Sensor range	2-8 m
Sensor angle	about 120°
Shell Material	ABS Plastic
Working temperature	-40 ~ +70 °C
Humidity	<90%
Storage	-40 ~ +70 °C

The data in the details come from the laboratory of King-senry or the laboratory of the certified company, and may be slightly deviated due to different objective conditions.

7. Installation Warnings of Receiver

1. The receiver should be installed by a certified electrician.

2. Had better program the switch from receiver for first installation.

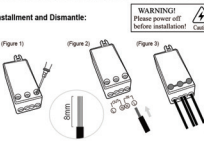
3. Please avoid the receiver falling from a height above 1 meter and causing damage.

4. After wiring, don't let the output live and neutral wires touch together, as this may cause the receiver to short circuit.

5. It is not advisable to install switch on metal surface or receiver in a metal confined cover, metal will shield wireless signal, thus shortening remote control distance.

6. Install the receiver where the human body cannot be directly contacted.

Installation and Dismantle:

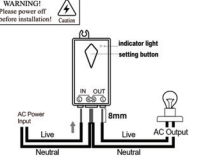


8. Wiring method of Receiver

1. Loosen the screws with a screwdriver

2. Each wire end is 8mm exposed and then inserted into the corresponding wiring hole.

3. Then tighten the screws with a screwdriver and cover with silicone.

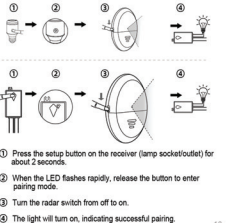


9. Specifications of Receiver

Model	SW-R01
Dimension	52x26x23 (mm)
Current	10A
Working voltage	AC 80-275V
Relay life	400K times on/off
Incandescent lamp	≤1000W
LED/CFL lamp	≤1800W
Standby power consumption	≤0.05 W
Working power consumption	≤0.8 W
Working frequency	433.92 MHz
Emission sensitivity	-116dB
Shell Material	PC
Fireproof level	V0
Working temperature	-40 ~ +70 °C

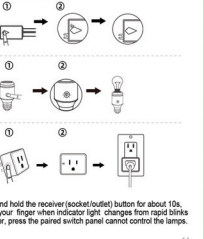
10. Receivers/Lamp sockets/Outlets Pairing Method

If the units are unpaired from the factory, pair them first following the instructions.



11. Delete the paired wireless receiver (socket /outlet) code

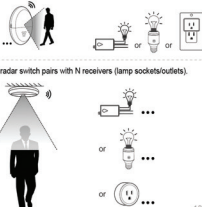
(Please use cautiously)



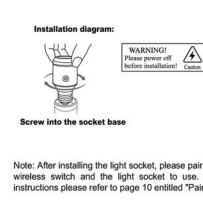
12. Application

(Home, hotel, inn or Factory etc.)

a. 1 radar switch pairs with 1 receiver (lamp socket/outlet). Each receiver supports a maximum of 8 radar switches.



b. 1 radar switch pairs with N receivers (lamp sockets/outlets).



14. Installation Warnings of light socket

- The remote control light socket is for indoor use, please do not install it in the place exposed to direct sunlight, rain, long-term working temperature exceeds the limit value or high pollution and high humidity, which will shorten the service life of the remote

Installation diagram:



Note: After installing the light socket, please pair the wireless switch and the light socket to use. For instructions please refer to page 10 entitled "Pairing"

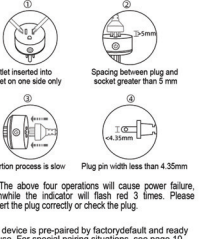
15. Specifications of light socket

Model	SW-R04
Dimension	3.35 x1.7x1.7 in
Current	5A
Working voltage	AC 80-275V
Relay life	400K times on/off
Key lifespan	50K times on/off
Incandescent lamp	≤800W
LED/CFL lamp	≤500W
Standby power consumption	≤0.05 W
Working power consumption	≤0.6 W
Working frequency	433.92 MHz
Shell Material	PC
Fireproof level	V0
Working temperature	-40 ~ +70 °C

16. Installation warnings of Remote control outlet

- The outlet must be installed by professional who has got electrician certification.
- Outlet into a three-hole remote control outlet with a ground wire.
- Do not install remote control outlet in areas with high pollution or high humidity.
- Try not to install the remote control outlet in direct sunlight or where the long-term working temperature exceeds the limit, which will shorten the service life of the product.
- Before installation, it should be tested repeatedly to be able to switch normally and control the outlet work. If it does not work properly, change the installation position or check the surroundings whether there is strong electromagnetic interference.
- After connecting the remote control outlet, turn on the power and press the button on the side of the outlet, the LED indicator can be on or off, indicating that the outlet is normal.
- There is contact detection inside the remote control outlet. When the outlet can't be inserted stably, it will automatically disconnect the output voltage, which greatly improves the safety of electricity.

No Power Troubleshooting:



The above four operations will cause power failure, meanwhile the indicator will flash red 3 times. Please reinsert the plug correctly or check the plug.

The device is pre-paired by factory default and ready to use. For special pairing situations, see page 10.

17. Specifications of Remote control outlet

US outlet	Model: SW-R05	Dimension: 52x52x25 mm
UK outlet	Model: SW-R06	Dimension: 38x48x25 mm
EU outlet	Model: SW-R07	Dimension: 50x42x30 mm
EU outlet	Model: SW-R08	Dimension: 77x50x48 mm
Current	15A (1500W LED)	
Working voltage	AC125V 50/60 Hz or 80-275V AC	
Relay life	400K times on/off	
Key lifespan	50K times on/off	
Standby power consumption	≤0.05 W	
Working power consumption	≤0.8 W	
Working frequency	433.92 MHz	
Shell Material	PC	
Fireproof level	V0	
Working temperature	-40 ~ +70 °C	