

USER MANUAL

Microwave Touchless Switch

Feature

Microwave touchless switch is using frequency-modulated continuous wave combined with radar signal processing to measure more parameters including distance, speed and present of objects.

- 1.High precision: to provide precise measurement data with high accuracy for detecting the position, speed and size of target.
- 2.High adaptability: to penetrate non-metallic materials and to operate in all-weather conditions from indoor to outdoor spaces, regardless of environmental conditions such as rain, fog, dust, snow, sunlight, reflected light and high heat settings.
- 3.Low energy consumption and longer lifespans.
4. Real-time monitoring and feedback.
- 5.DIP switches to adjust fully functions of times, pulse/toggle, distance, LED swap, internal/external.

Specification

	Voltage: 12~24V DC	Current: Standby: <100mA Active :<100mA
	Waterproof: IP 65	Weight: 0.027kg
	Timer Delay: 1/5/10/20sec (pulse mode) Pulse and toggle	Reaction Distance: 20cm factory default Range:10/20/30/40cm
	Circuit Grade: 30V DC 1 A	Operating Rating: -20~ + 60° C
	Mode: 1 changeover contact (NO/NC/COM)	

Connection

Settings

DIP switch function

S1	Internal/external
S2	Timer delay/toggle
S3	LED color reverse. Red/Blue(standby)/green(active) → red/blue(active)/green(standby)
S4/S5	delay time selecting(1s, 5s, 10s, 20s)
S6/S7	Detecting distance selecting(10cm, 20cm, 30cm, 40cm)

DIP switch Settings: see Page 3

Cables

Red cable: 12~24V DC
Black cable: 0V DC

Green: N.O
Blue : COM
Purple: N.C

Yellow cable: Green LED control (in external mode)
White cable : Red/Blue LED control (in external mode)

Change-over contact

Mounting

Mounting with flush box

Fixed Holes of flush box as 60mm

Surface Mounting

Fit any shape of stainless steel plate

Wiring Diagram

INT Mode

EXT Mode

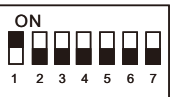
Attention - Caution
*Input voltage must be correct as specified
Wrong connecting may damage the product.
This failure is not covered by the product warranty

Microwave touchless switch DIP switch settings

DIP switch function

S1	Internal/external
S2	Timer delay/toggle
S3	LED color reverse. Red/Blue(standby)/green(active) → red/blue(active)/green(standby)
S4/S5	Delay time selecting(1s,5s,10s,20s)
S6/S7	Detecting distance selecting(10cm,20cm,30cm,40cm)

Internal/external mode selecting

	S1 OFF: Internal mode (Factory default)
	S1 ON: External mode

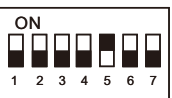
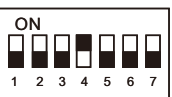
Timer delay/toggle

	S2 OFF: Timer delay (Factory default)
	S2 ON: Toggle

LED color reverse

	S3 OFF: Red(standby) Green(active) (Factory default)
	S3 ON: Red(active) Green(standby)

Delay time selecting(S2 must be OFF)

	S4/S5 OFF/OFF: 1s (Factory default)
	S4/S5 OFF/ON: 5s
	S4/S5 ON/OFF: 10s
	S4/S5 ON/ON: 20s

Detecting distance selection

	S6/S7 OFF/OFF: 10cm
	S6/S7 OFF/ON: 20cm (Factory default)
	S6/S7 ON/OFF: 30cm
	S6/S7 ON/ON : 40cm

40-31A090 Label

Microwave Touchless Switch
LED Indicator: Red/Green
FCC ID: 2AHAB-40-31A090
Model No.: 40-31A090
Voltage: 12-24VDC

40-31A091 Label

Microwave Touchless Switch
LED Indicator: Blue/Green
FCC ID: 2AHAB-40-31A090
Model No.: 40-31A091
Voltage: 12-24VDC

FCC Compliance Statement:

This device complies with Part 15 of the FCC rules. Operation is subjected 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.

FCC Compliance Statement:

This device complies with Part 15 of the FCC rules. Operation is subjected 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. Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The distance between user and products should be no less than 20cm. 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.