MAGIC SWITCH: MS11

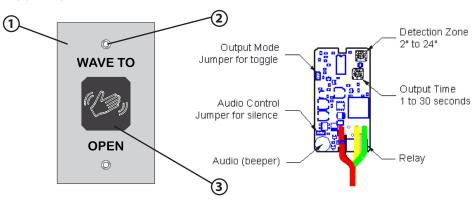
Hardwired | Stainless Steel | Touchless | Activation Sensor



Single Gang (shown) 10MS11S Double Gang 10MS11D Jamb Style 10MS11J

PATENT PENDING

DESCRIPTION



- 1. faceplate
- 2. mounting holes
- 3. sensor window

TECHNICAL SPECIFICATIONS

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Technology	Microwave - Doppler Radar (24.125 GHz)	
Detection Mode	Motion (bidirectional)	
Supply Voltage	12-24 VAC/DC	
Current Consumption	< 2.8W	
Temperature Range	-22° F to 158° F	
Enclosure Rating	NEMA 4	
Sensing Zone *	2 - 24 inches (adjustable)	
Relay	1-Form C Solid State Relay	
	1A 30 VAC/VDC (max)	
Dimonoiono (Ovorall)	Single Gang - 4.5" (H) × 2.75" (W) × 0.98" (T)	
Dimensions (Overall) [faceplate = 0.16" (T)]	Double Gang - 4.5" (H) x 4.5" (W) x 0.98" (T)	
	Jamb - 4.5" (H) × 1.68" (W) × 0.98" (T)	
Wire Harness Length	12 inches	
Material	Stainless Steel (faceplate)	
	Specifications are subject to change without prior notice.	

^{*} Sensing Zone is dependent upon

- · Size (area) of object
- · Orientation of object
- Speed of object
- · Environmental conditions

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^{*} Use of the device outside the intended application cannot be guaranteed by the manufacturer.

PRECAUTIONS



The door control unit and the door cover profile must be correctly grounded.



Only trained and qualified personnel may install and setup the sensor.



Always test the proper operation of the installation before leaving the premises.



The warranty is invalid if unauthorized repairs are made or attempted by unauthorized personnel.

INSTALLATION

single gang electrical box may be used (nonmetallic ideal)







Sim Pair Swing Doors



Dual Egress Swing Doors



Sliding Doors

NOTE: Do not install the sensor within the swingpath of the door.

WIRING

Description	Wire Color
12-24 VAC/DC	Black
12-14 VAC/DC	Red
COM	White
NO	Green
NC	Yellow

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SETTINGS & ADJUSTMENTS

DETECTION ZONE - potentiometer

COUNTERCLOCKWISE - decrease (2" minimum) CLOCKWISE - increase (24" maximum *)

OUTPUT TIME - potentiometer

COUNTERCLOCKWISE - decrease (1 s minimum) CLOCKWISE - increase (30 s maximum)

AUDIBLE CONTROL - 2-pin jumper

ON - jumper removed (or on 1 pin) OFF - jumper over both pins

OUTPUT MODE - 2-pin jumper

TIMED - jumper removed (or on 1 pin) TOGGLE - jumper over both pins



Output Mode

Audio Control Jumper for silence

Jumper for toggle

Detection Zone 2" to 24"

Output Time

1 to 30 seconds

* Maximum Detection Zone will vary depending on size (area), orientation, and speed of object as well as environmental conditions.

FUNCTIONALITY -

AUDIBLE ALERT - When Audible Alert is ON, it sounds for 0.5 seconds when detection occurs.

TIMED MODE - Recommended for automatic door applications. In Timed Mode, a detection activates the relay and the relay holds for a predetermined amount of time adjusted by the Output Time potentiometer (1 to 30 seconds, counterclockwise - decrease, clockwise -increase).

TOGGLE MODE - Recommended for switch applications. In Toggle Mode, a detection activates the relay and a second detection deactivates the relay. The relay will hold indefinitely until a second detection occurs.

SETUP & OPERATION

When first powered, the backlit hand symbol will alternate between blue and green for approximately 5 seconds. Allow at least 15 seconds for the sensor to complete start up.

During normal operation, when a detection occurs, the hand symbol will momentarily change from blue to green and the audible alert will sound (if enabled).

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FCC: G9B-21019

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.

Changes or modifications not expressly approved by BEA Incorporated could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes: (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

TROUBLESHOOTING .

Sensor does not seem to detect	 Bad or no power Detection range too short Incorrect wiring 	 Check power supply Adjust detection zone Check wiring
Sensor stays in detection	Envionmental conditions Incorrect wiring Wrong output mode	 Remove moving objects from around sensor Check wiring (NO and NC) Switch output mode to pulse



Upon completion of the installation or service work, at a minimum, perform a daily safety check in accordance with the minimum inspection quidelines provided by AAADM. Provide each equipment owner with an owner's manual that includes a daily safety checklist and contains, at a minimum, the information recommended by AAADM. Offer an information session with the equipment owner explaining how to perform daily inspections and point out the location of power/operation switches to disable the equipment if a compliance issue is noted. The equipment should be inspected annually in accordance with the minimum inspection guidelines. A safety check that includes, at a minimum, the items listed on the safety information label must be performed during each service call. If you are not an AAADM certified inspector, BEA strongly recommends you have an AAADM certified inspector perform an AAADM inspection and place a valid inspection sticker below the safety information label prior to putting the equipment into operation.