MAGIC SWITCH: MS08 RETROFIT

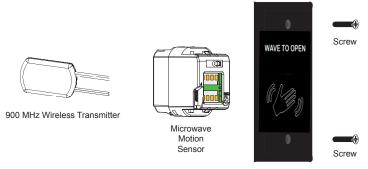
Wireless¹ Activation | Touchless | Activation Sensor



10MS08UR

Includes single gang (shown) and double gang faceplates and hardwired 900 MHz transmitter

DESCRIPTION



Faceplate

TECHNICAL SPECIFICATIONS *

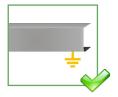
Technology	Microwave	
Detection Mode	Motion (bidirectional)	
Radiated Frequency	24.125 GHz	
Radiated Power Density	5 mW/cm ²	
Supply Voltage	12-24 VAC +/-10% @ 50-60 Hz	
	12-24 VDC +30%/-10%	
Current Consumption	< 1.5 W	
Output	Relay with switch-over contact (voltage free)	
Relay contact rating (max voltage)	60 VDC / 125 VAC	
Relay contact rating (max current)	1 A (resistive)	
Max switching power	30 W (DC) / 60 VA (AC)	
Detection Range	4-24 inches (adjustable)	
Output Hold Time	0.5 s (in pulse mode)	
Temperature Range	-4°F to +131°F	
Material	ASA, Nylon, PC	
Certification	Electromagnetic compatibility (EMC) according to 2004/108/EC	
	FCC: G9B-MS08 / 2ABWS-10TD900PB	
	IC: 4680A-MS08 / 4680A-10TD900PB	

^{*} Specifications are subject to change without prior notice.

Use of the device outside the intended application cannot be guaranteed by the manufacturer.

 $^{^1}$ The MSO8 Retrofit Kit is designed to replace an existing, hardwired (2 wire), mechanical pushplate with a touchless activation sensor. The existing 2 wires will be used to provide power to the sensor.

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 or double gang electrical box may be used (non-metallic ideal)

plastic ring adapter may be used to install double gang faceplate onto various mounting boxes

weather resistent foam gasket may be used to protect against weather

APPLICATIONS







Sim Pair Swing Doors



Dual Egress Swing Doors



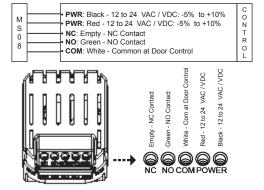
Sliding Doors

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

WIRING

SENSOR =

Connect the exiting 2 wires running through the wall (previously used for the activation relay of the hardwired, mechanical pushplate) to the MS08 sensor's PWR (black) and PWR (red) terminals. At the door control, move the 2 wires from the activation circuit to power (see Technical Specifications for power information).

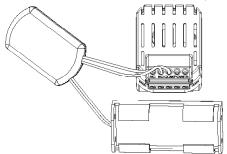


WIRING (continued)

WIRELESS -

The 900 MHz wireless transmitter (10TD900PB) comes prewired to the MS08 sensor's NO (green) and COM (white) terminals. The 900 MHz wireless transmitter is powered externally by two (2) AAA batteries.

For the 900 MHz wireless programming instructions, please reference BEA User's Guide 75.5786 which comes with the 900 MHz wireless receiver (sold separately).



SETTINGS & ADJUSTMENTS

DETECTION ZONE - potentiometer

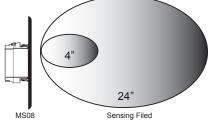
COUNTERCLOCKWISE - decrease (4" minimum) CLOCKWISE - increase (24" maximum *)

OUTPUT MODE - slide switch

PUI SF - switch down TOGGLE - switch up



Potentiometer



vary depending on size (area), orientation, and speed of object as well as environmental conditions.

Toggle Mode

Output Mode Switch

SENSOR FUNCTIONALITY

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.

WIRELESS FUNCTIONALITY

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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	1. Bad or no power	1. Check power supply
	2. Detection range too short	2. Adjust detection zone
	3. Incorrect wiring	3. Check wiring
Sensor stays in detection	1. Envionmental conditions	1. Remove moving objects from around sensor
	2. Incorrect wiring	2. Check wiring (NO and NC)
	3. Wrong output mode	3. 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.

