



BEA ARCHITECTURAL SPECIFICATION SHEET

Automatic and Industrial Door Solutions: MS08 Touchless Switch

Product Specifications

Sensor shall be a hands free activation device designed to detect the motion of a hand and send an electrical signal to the door operator to open the door, re-open or hold a door open. Must be a sensor that operates at 24.125 GHz (K-band frequency). The sensor must have an adjustable range of 4" to 24" (10.16 cm to 60.96 cm).

Touchless Switch specification is based upon the MS08 Microwave Motion Sensor Face Plate Dimensions: 2.77 in. x 4.56 in. (7.0 cm x 11.58 cm) (single gang) and 4.56 in. x 4.56 in. (11.58 cm x 11.58 cm) (double gang).

1. Mounting: Wall mounted within a single gang or double gang electrical conduit box.
2. Thermal Range Requirements: - 4°F (20°C) to 131°F (55°C)
3. Sensor shall be capable of detecting motion from 4 in. to 24 in. (10.16 cm to 61 cm)
4. Sensor shall not detect presence of a stationary object
5. Relay Output Hold Time: 0.5 seconds – 10 Seconds & pulse mode options.
6. Certifications: Electromagnetic compatibility (EMC) according to 2004/108/EC, FCC: G98-MS08, IC: 4680A-MS08.
7. Sensor must be capable of being installed in interior or exterior environments.
8. Four wire conductor, 18 gauge minimum 12-24V AC/DC Power.
9. Finish: Black polycarbonate with white lettering, white polycarbonate with gray lettering or cream colored polycarbonate with gray lettering. Housing: Sensor shall be made of polycarbonate with lettering & graphic (hand wave), and available in black, white or cream colors.

Note to Specifier:

10MS08U includes single and double gang black faceplates with wave to open text and (wave) logo

70.5278/70.5279 – single gang and double gang black faceplates with handicapped logo

70.5268/70.5269 – single gang and double gang white faceplates with wave to open text and (wave) logo

Product image and Application Photo

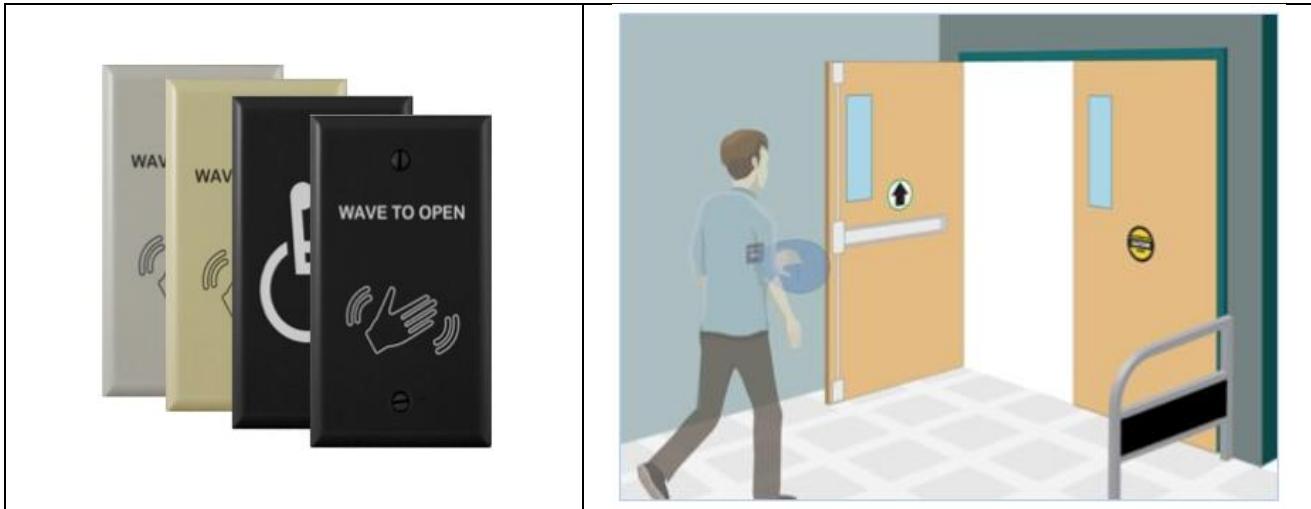
BEA Inc.
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Pittsburgh, PA 15275-1213

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Technical Specs:

Technology	K-Band Microwave Doppler Radar
Radiated Frequency Transmitter	24.125 GHz
Radiated Power	< 20 dBm EIRP
Radiated Power Density	< 5 mW/cm ²
Detection Mode	Motion (bidirectional)
Detection Range	4 in. to 24 in. (10.16 cm to 61 cm) (adjustable)
Output	Relay with switch-over contact (free of potential)
Max. Voltage	60 VDC; 125 VAC
Max. Current	1 A (resistive)
Max. Switching Power	30 W (DC); 60
Supply Frequency	50 to 60 Hz
Supply Voltage	12 to 24 VAC ± 10% 12 to 24 VDC + 30%; - 10%
Power Consumption	< 1.5 W
Material / Colors	ASA, Nylon, PC / Black, White, Cream

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	VA (AC)
Output Hold Time	0.5 s (in pulsed mode)

Cable Type	Standard cable up to 16 AWG - 1.5 mm ²
Temperature Range	-4°F to 131°F (-20°C to 55°C)
Certifications	EMC: 2004 / 108 / EC; FCC: G9B-MS08; IC: 4680A-MS08

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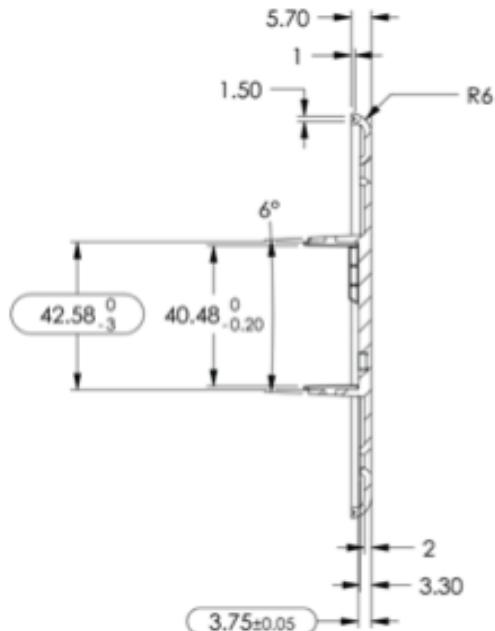
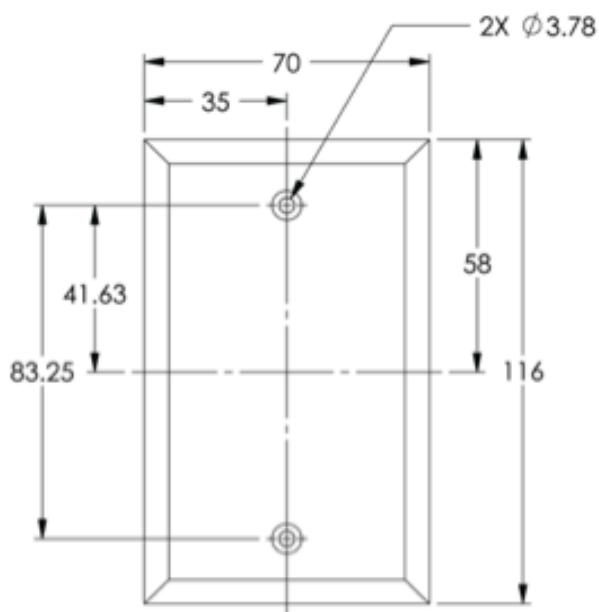


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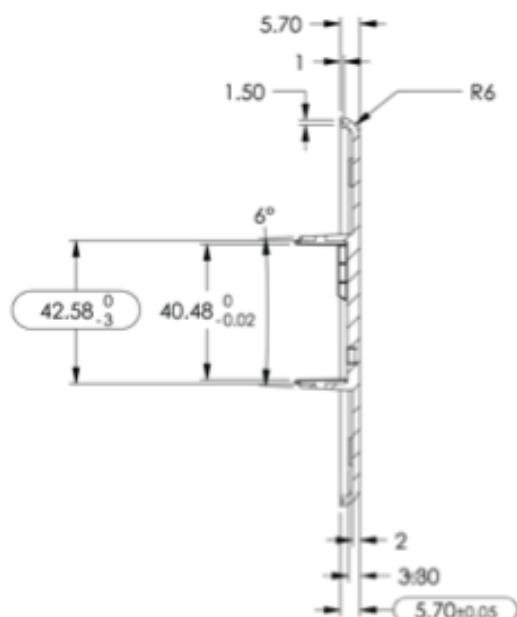
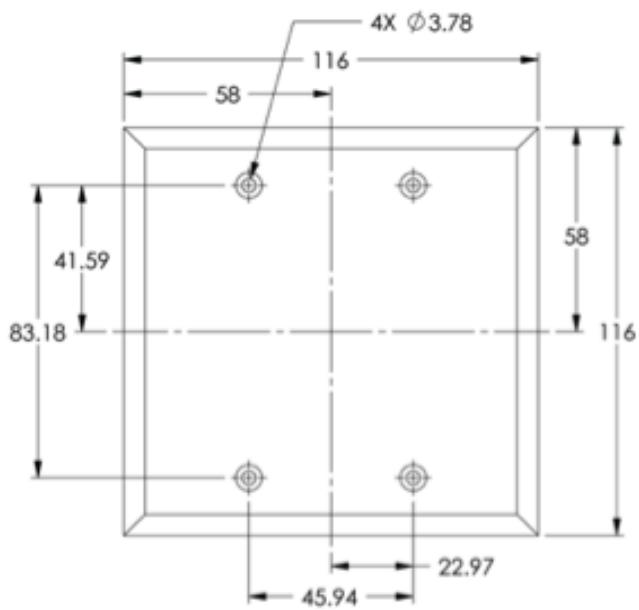
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79.0046.01

Dimensions:



Double Gang Dimensions:



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MAGIC SWITCH

TOUCHLESS SOLUTIONS
MS08 & MS09 SERIES



10MS08U (above) contains single and double gang, black faceplates with wave to open text
MS08U CUSTOM offers a choice of faceplate styles

TOUCHLESS TECHNOLOGY ACTIVATION SENSORS

DESCRIPTION

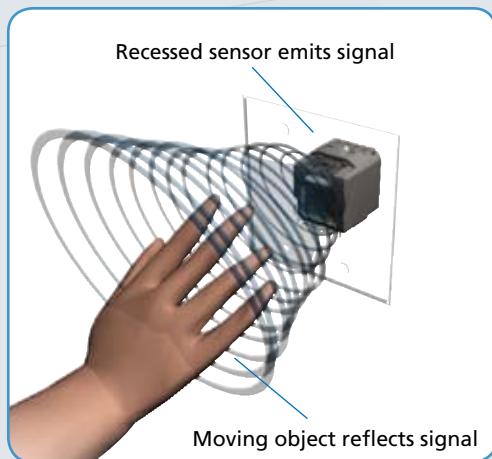
The **MS08 & MS09** utilize microwave technology and the Doppler Radar effect. This Doppler Radar effect emits a signal that, when reflected by a moving object (i.e. a hand, cart, wheelchair, etc.), activates the door. This touchless feature greatly reduces the spread of bacteria commonly found on push plates requiring a physical touch for activation.

The MS09 is a NEMA 4 variant of the MS08.

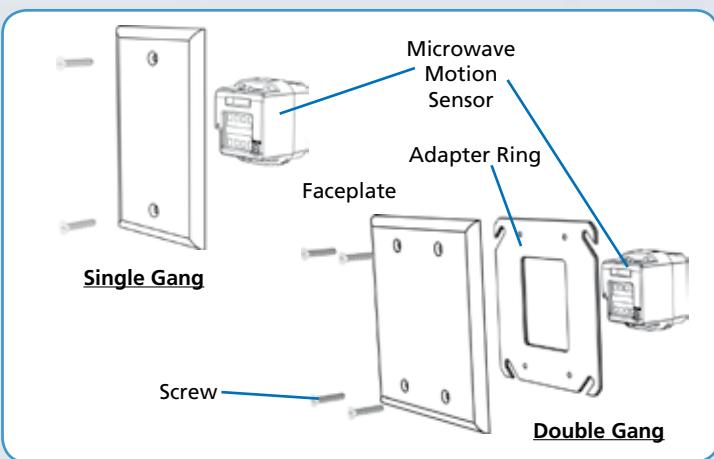
Easy Installation



How It Works

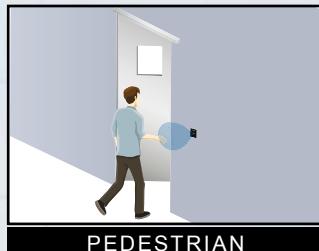


Components View



FEATURES

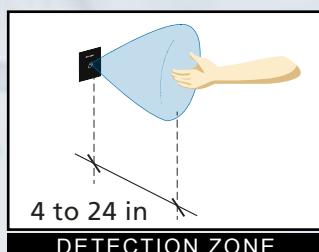
- Touchless technology is ideal for use in sterile environments (i.e. clean-rooms, healthcare facilities, food processing plants)
- Can be hidden from view by installing the microwave sensor behind non-metallic surfaces (i.e. mounted behind drywall)
- Variable adjustment of detection zone from 4 to 24 inches
- Water-resistant foam gasket provides increased reliability when exposed to water or cleaning products
- Low profile, beveled design reduces accidental damage



PEDESTRIAN SWING DOOR



HEALTHCARE



4 to 24 in
DETECTION ZONE



MS09



MS21H SERIES



MS21W SERIES

APPLICATIONS

- Sterile environments (clean-rooms, operating rooms, pharmaceutical, manufacturing, etc.)
- Healthcare facilities (hospitals, assisted living, elder care, etc.)
- Food processing plants (reduces cross-contamination)
- Architectural specific applications (low-profile requirement)

MS08 SERIES

70.5226 Single Gang Black with Text	70.5227 Double Gang Black with Text	70.5272 Single Gang Solid Black	70.5273 Double Gang Solid Black	70.5278 Single Gang Black with Logo	70.5279 Double Gang Black with Logo
70.5268 Single Gang White with Text	70.5269 Double Gang White with Text	70.5274 Single Gang Solid White	70.5275 Double Gang Solid White	70.5270 Single Gang Cream with Text	70.5271 Double Gang Cream with Text
70.5276 Single Gang Solid Cream	70.5277 Double Gang Solid Cream	10BOX24SGSM Single Gang Surface Mount	10BOXDGSM Double Gang Surface Mount	10BOXDG45C 4.5" Carlon Surface Mount	10MS09 NEMA 4 Enclosure

MAGIC SWITCH FAMILY

TECHNICAL SPECIFICATIONS

Technology	Microwave Motion Sensor
Radiated Frequency	24.125 GHz
Transmitter Radiated Power	< 20 dBm EIRP
Radiated Power Density	< 5 mW/cm ²
Detection Mode	Motion (bidirectional)
Detection Range	4 to 24 inches (adjustable)
Output	Relay with switch-over contact (free of potential)
Max. Voltage	60 VDC; 125 VAC
Max. Current	1 A (resistive)
Max. Switching Power	30 W (DC); 60 VA (AC)
Output Hold Time	0.5 s (in pulsed mode)
Supply Frequency	50 to 60 Hz
Supply Voltage	12 to 24 VAC ± 10% 12 to 24 VDC + 30%; - 10%
Power Consumption	< 1.5 W
Material / Colors	ASA, Nylon, PC / Black, White, Cream
Cable Length	Standard cable up to 16 AWG - 1.5 mm ²
Temperature Range	-4°F to +131°F
Certifications	EMC: 2004 / 108 / EC; FCC: G9B-MS08; IC: 4680A-MS08

Specifications are subject to change without prior notice.

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