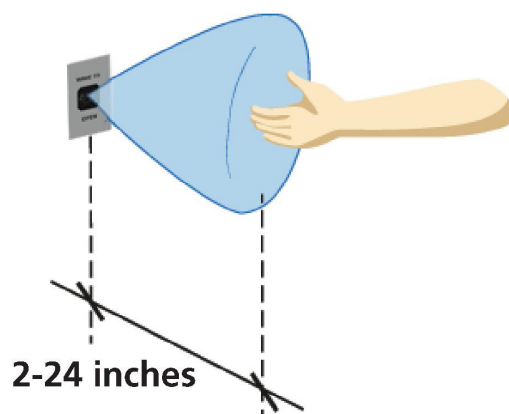


MAGIC SWITCH: MS11

ADJUSTABLE RANGE, STAINLESS STEEL TOUCHLESS ACTUATOR



PRIMARY APPLICATIONS



DESCRIPTION

BEA's MS11 is an aesthetically pleasing, touchless activation device designed to reduce the spread of germs and improve accessibility in healthcare, retail, industrial and commercial settings. The MS11 has been purpose-built to withstand the extreme rigors of fast-paced and sanitary environments.

The flush-mount MS11 is a durable stainless steel device utilizing adjustable-range microwave technology. The MS11's illuminated center and audible signaling confirms activation and encourages proper touchless use.

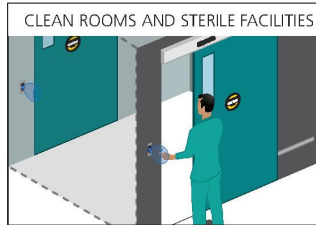
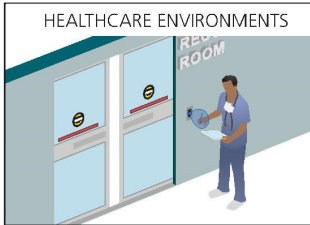
The MS11 detects moving objects such as a hand, cart or wheelchair and is designed for use in hospitals, pharmacies, clean rooms, food service and other areas needing highly accessible and germ-free activation.

FEATURES & BENEFITS

- NEMA 4 (IP65) enclosure capable of use in industrial and extreme washdown environments
- Illuminated blue center changes to green upon signal reception/activation
- Adjustable sensing zone from 2 to 24 inches (pulse or toggle)
- Adjustable audible alert setting, including silent-mode required for hospitals and other noise-sensitive environments
- Configurable output hold time of 1 to 30 seconds allowing unique, user-defined device placement
- Inter-operates with all automatic door control makes and models



APPLICATIONS



TECHNICAL SPECIFICATIONS

Technology	Microwave Doppler Radar
Detection Mode	Motion (bidirectional), Toggle or Timed Mode
Sensing Zone **	2 to 24 inches (adjustable)
Hold Time	1 to 30 s
Alert Settings	
Audible Alert	Silent Mode or Signal Mode
Visual Alert	Blue (Standby) Green (Activation)
Supply Voltage	12-24 V AC/DC or +5 VDC
Current Consumption	< 2.8W
Temperature Range	-22° F to 158° F
Enclosure Rating	NEMA 4 / IP65
Relay	1-Form C Solid State Relay 1A 30VAC/VDC (max)
Dimensions (Overall)	Single Gang: 4.5 in x 2.75 in x 0.98 in Double Gang: 4.5 in x 4.5 in x 0.98 in Jamb: 4.5 in x 1.68 in x 0.98 in
Wire Harness Length	12 inches
Material	Stainless Steel (faceplate)/ ABS (center)

** See User's Guide

DIMENSIONAL DRAWINGS



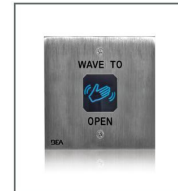
RELATED PRODUCTS



10MS11S
STAINLESS STEEL
SINGLE GANG



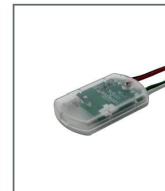
10MS11J
STAINLESS STEEL
JAMB STYLE



10MS11D
STAINLESS STEEL
DOUBLE GANG



10RD900
900 MHZ RECEIVER



10TD900RT
900 MHZ RETROFIT
TRANSMITTER

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MAGIC SWITCH: MS11

ADJUSTABLE RANGE, STAINLESS STEEL TOUCHLESS ACTUATOR



MAGIC SWITCH: MS11

ENGLISH

Hardwired | Stainless Steel | Touchless |
Activation Sensor



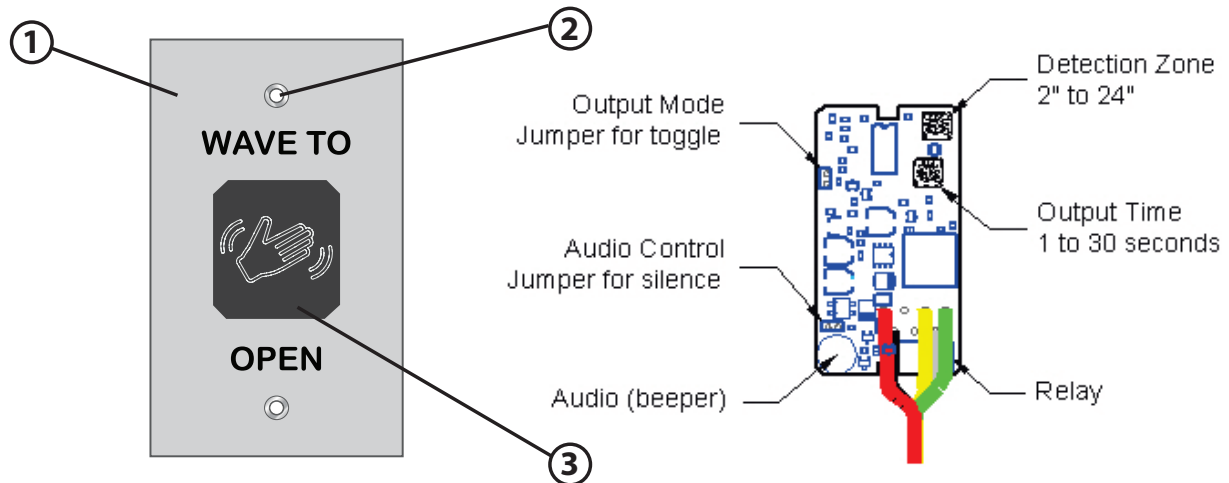
Single Gang (shown)
10MS11S

Double Gang
10MS11D

Jamb Style
10MS11J

PATENT PENDING

DESCRIPTION



1. faceplate
2. mounting holes
3. sensor window

TECHNICAL SPECIFICATIONS

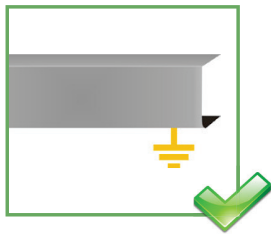
Technology	Microwave - Doppler Radar (24.125 GHz)
Detection Mode	Motion (bidirectional)
Supply Voltage	12-24 VAC/DC
Current Consumption	< 2.8W
Temperature Range	-22° F to 158° F
Enclosure Rating	NEMA 4
Sensing Zone *	2 - 24 inches (adjustable)
Relay	1-Form C Solid State Relay 1A 30 VAC/VDC (max)
Dimensions (Overall) [faceplate = 0.16" (T)]	Single Gang - 4.5" (H) x 2.75" (W) x 0.98" (T) Double Gang - 4.5" (H) x 4.5" (W) x 0.98" (T) Jamb - 4.5" (H) x 1.68" (W) x 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

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

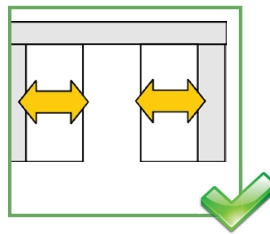
PRECAUTIONS



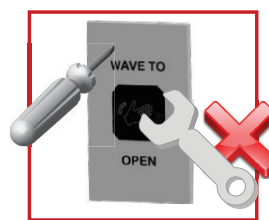
The door control unit and the door cover profile must be correctly grounded.



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.

1 INSTALLATION

TIPS

single gang, double gang, or jamb style electrical box may be used (non-metallic ideal)

APPLICATIONS



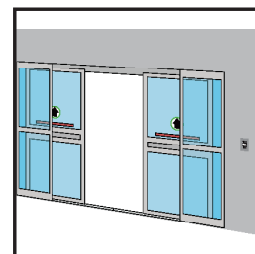
Single Swing Doors



Sim Pair Swing Doors



Dual Egress Swing Doors



Sliding Doors

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

2 WIRING

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

3 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

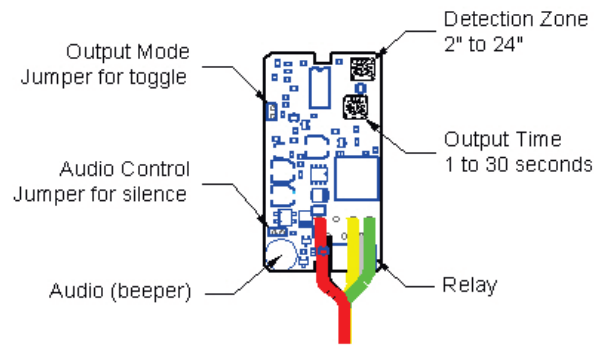
ON - jumper removed (or on 1 pin)

OFF - jumper over both pins

OUTPUT MODE - 2-pin jumper

TIMED - jumper removed (or on 1 pin)

TOGGLE - jumper over both pins



*** 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.

4 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).