



# MS51W FAMILY

BATTERY-POWERED, TOUCHLESS ACTUATOR  
WITH BUILT-IN, 900 MHZ TRANSMITTER



BEA's **MS51W** is a long-lasting battery-powered, active infrared touchless actuator with a built-in 900 MHz wireless transmitter that reduces wiring and provides flexible mounting options.

This solution boasts superior battery life with three years of uninterrupted operation\* across a range of applications and environments. LED alerts indicate battery status for easy maintenance.

**MS51W** offers reliable operation with key features engineered to ensure performance in challenging conditions, such as harsh lighting and cold weather climates. Selectable immunity modes focus on enhancing performance and mitigating environmental disturbances such as rain, water spray, and snow.

BEA's **MAGIC SWITCH®** line of touchless actuators provides germ-free door activation without physical contact for safer interactions, improved traffic flow, and enhanced accessibility. They are available in a variety of popular design options, including accessibility artwork.

## Best-in-Class Battery Life

3-year battery life provides uninterrupted operation in the field\*

## Built-in, Wireless Transmitter

Integrated 900 MHz transmitter reduces installation time\*\*

900 MHz wireless technology provides greater line-of-sight transmission distance for reliable activation

## Easy Installation & Setup

Completely wireless solution reduces overall installation time and cost

Three-step process simplifies installers' time in the field

## Enhanced Performance Features

Built-in redundant sensor ensures consistent detection in the event of environmental interference such as window pollution

Selectable immunity modes mitigate environmental disturbances such as rain, water spray, and snow

Advanced light-cancellation feature reduces false detections from direct sun and light in exposed areas

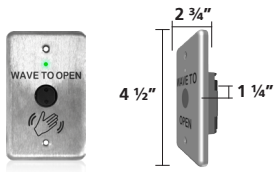
## Robust Construction

Stainless steel faceplate and IP65 rating for harsh environments

\* certain combinations of settings can affect maximum battery life

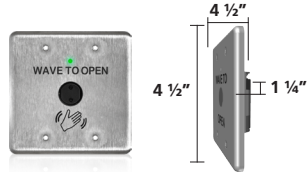
\*\* corresponding wireless receiver sold separately

# PRODUCT SERIES



## 10MS51W-S

Single gang with "wave to open"  
text + hand logo



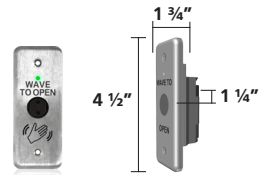
## 10MS51W-D

Double gang with "wave to open"  
text + hand logo



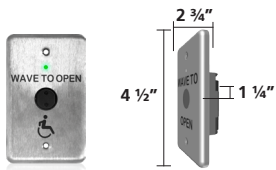
## 10MS51W-R

Round gang with "wave to open"  
text + hand logo



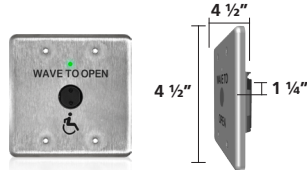
## 10MS51W-J

Jamb gang with "wave to open"  
text + hand logo



## 10MS51W-SA

Single gang with "wave to open"  
text + accessibility logo



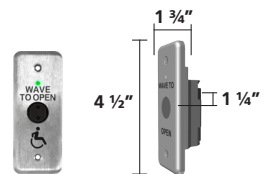
## 10MS51W-DA

Double gang with "wave to open"  
text + accessibility logo



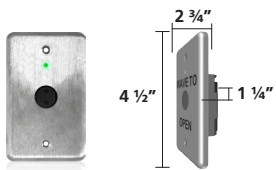
## 10MS51W-RA

Round gang with "wave to open"  
text + accessibility logo



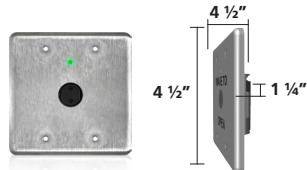
## 10MS51W-JA

Jamb gang with "wave to open"  
text + accessibility logo



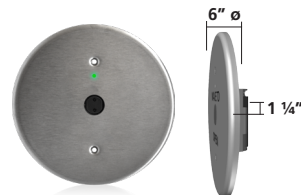
## 10MS51W-SP

Single gang, plain



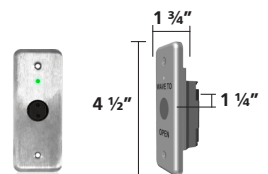
## 10MS51W-DP

Double gang, plain



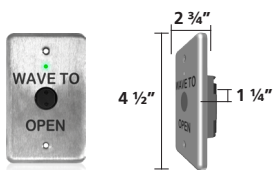
## 10MS51W-RP

Round gang, plain



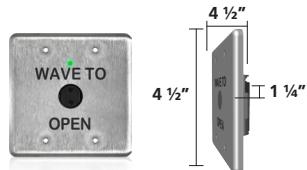
## 10MS51W-JP

Jamb gang, plain



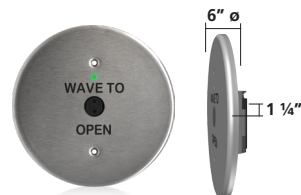
## 10MS51W-ST

Single gang with "wave to open"  
text only



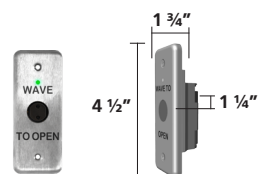
## 10MS51W-DT

Double gang with "wave to open"  
text only



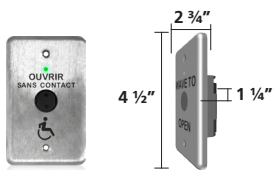
## 10MS51W-RT

Round gang with "wave to open"  
text only



## 10MS51W-JT

Jamb gang with "wave to open"  
text only



## 10MS51W-SAF

Single gang with "ouvrir sans contact"  
text (French) + accessibility logo

# MOUNTING OPTIONS & ACCESSORIES



## 10MSBOXSGSM

MAGIC SWITCH surface-mount  
box, single gang



## 10MSBOXDGSM

MAGIC SWITCH surface-mount  
box, double gang



## 10MSBOXRNDISM

MAGIC SWITCH surface-mount  
box, round



## 10MSBOXJAMBSM

MAGIC SWITCH surface-mount  
box, jamb



## 10BOLLARDBRZ

Bollard - bronze  
*double gang only*



## 10BOLLARDBRZWOH

Bollard without hole - bronze



## 10BOLLARDSLV

Bollard - silver  
*double gang only*



## 10BOLLARDSLVWOH

Bollard without hole - silver



## 10BOLLARDBLK

Bollard - black  
*double gang only*



## 10BOLLARDBLKWOh

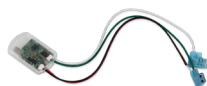
Bollard without hole - black

# RELATED PRODUCTS



## 10RD900

900 MHz receiver module



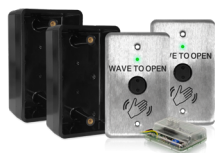
## 10TD900TR

900 MHz retrofit transmitter



## 10BR2-900

2-relay logic module



## 10MS51W-SKIT

10MS51W-S sensors (2) +  
10MSBOXSGSM boxes (2) +  
10RD900 receiver



## 10MS51W-DKIT

10MS51W-D sensors (2) +  
10MSBOXDGSM boxes (2) +  
10RD900 receiver



## APPLICATIONS



Retail



Restroom



Healthcare



Outdoor environments

## TECHNICAL SPECIFICATIONS

### TECHNOLOGY / PERFORMANCE

<b>Technology</b>	Active infrared
number of IR sensors	2
<b>Radio control type</b>	Digital
<b>Frequency</b>	908 – 918 MHz (frequency hopping)
<b>Emitted radio power</b>	-25 dBm (transmitter)
<b>Detection range</b>	
long range (default)	12" (30.5cm) max. (2 year maximum battery life, at 150 activations per day)
short range	6" (15.24cm) max. (3 year maximum battery life, at 150 activations per day)

<b>Product temperature range</b>	-22 – 158 °F (-30 – 70 °C)
----------------------------------	----------------------------

### ELECTRICAL

<b>Power supply</b>	3 VDC (2 AA batteries, each ~1.5 V max.)
<b>Power consumption</b>	< 0.5 mW (when idle) < 25 mW (upon RF transmission)

### PHYSICAL

<b>Dimensions (overall)</b>	
single gang	2 ¾" (W) × 4 ½" (H) × 1 ¼" (T)
double gang	4 ½" (W) × 4 ½" (H) × 1 ¼" (T)
round	6" (H/W) × 1 ¼" (T)
jamb	1 ¾" (W) × 4 ½" (H) × 1 ¼" (T)
<b>Material</b>	Stainless steel 304 and PC
<b>Weight</b>	Single gang: 0.34 lb Double gang: 0.55 lb Round: 0.71 lb Jamb: 0.29 lb

### COMPLIANCE

<b>IP rating</b>	IP65
<b>FCC certification</b>	FCC: 2ABWS-10TD900PB IC: 4680A-10TD900PB

**DISCLAIMER** Information is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will BEA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information from this document or the products to which the information refers. BEA has the right without liability to change descriptions and specifications at any time.

[WWW.BEASENSORS.COM](http://WWW.BEASENSORS.COM)



BEA AMERICAS / RIDC Park West / 100 Enterprise Drive / Pittsburgh, PA  
T 1-800-523-2462 / F 1-888-523-2462 / E info-us@BEAsensors.com

A **Halma** company