



## MS51W

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



### DESCRIPTION

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

### 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

### Easy Installation & Setup

A completely wireless solution reduces overall installation time and cost  
Three-step process simplifies installers' time in the field

### Robust Construction

Stainless steel faceplate and IP65 rating for harsh environments

\* corresponding wireless receiver sold separately

## 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>	8" (20cm) max.
<b>Battery life</b>	3 years (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

#### Dimensions (overall)

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)

**Material** Stainless steel 304 and PC

**Weight** 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

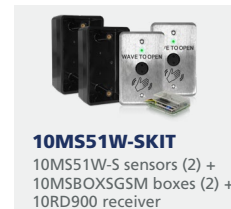
Every application is unique. To ensure you have what you need for yours, please consult your BEA Sales Representative.

## RELATED PRODUCTS

<b>10RD900</b>	900 MHz receiver module
<b>10TD900TR</b>	900 MHz retrofit transmitter
<b>10BR2-900</b>	2-relay logic module

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## PRODUCT SERIES



## ADDITIONAL OPTIONS

<b>10MS51W-SA</b>	single gang with "wave to open" text and accessibility logo, 900 MHz version
<b>10MS51W-SP</b>	single gang, plain, 900 MHz version
<b>10MS51W-ST</b>	single gang with "wave to open" text only, 900 MHz version
<b>10MS51W-DA</b>	double gang with "wave to open" text and accessibility logo, 900 MHz version
<b>10MS51W-DP</b>	double gang, plain, 900 MHz version
<b>10MS51W-DT</b>	double gang with "wave to open" text only, 900 MHz version
<b>10MS51W-RA</b>	6" round with "wave to open" text and accessibility logo, 900 MHz version
<b>10MS51W-RP</b>	6" round, plain, 900 MHz version
<b>10MS51W-RT</b>	6" round with "wave to open" text only, 900 MHz version
<b>10MS51W-JA</b>	jamb with "wave to open" text and accessibility logo, 900 MHz version
<b>10MS51W-JP</b>	jamb, plain, 900 MHz version
<b>10MS51W-JT</b>	jamb with "wave to open" text only, 900 MHz version

## MOUNTING OPTIONS

