



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

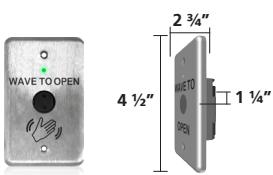
Robust Construction

Stainless steel faceplate and IP65 rating for harsh environments

* certain combinations of settings can affect maximum battery life

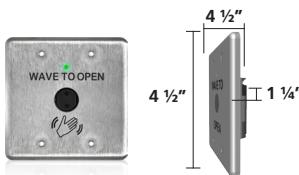
** corresponding wireless receiver sold separately

PRODUCT SERIES



10MS51W-S

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



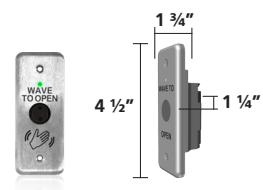
10MS51W-D

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



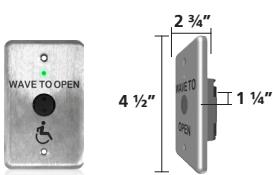
10MS51W-R

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



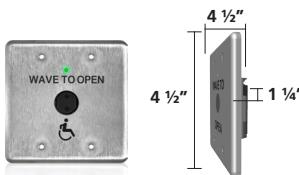
10MS51W-J

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



10MS51W-SA

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



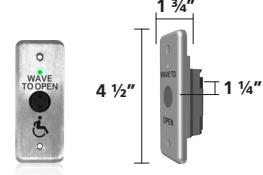
10MS51W-DA

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



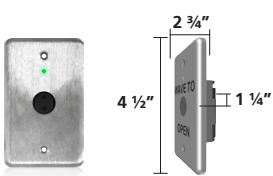
10MS51W-RA

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



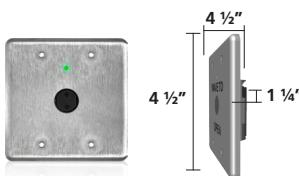
10MS51W-JA

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



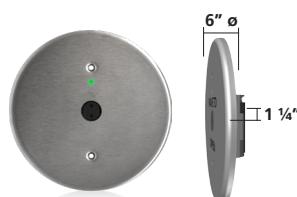
10MS51W-SP

Single gang, plain



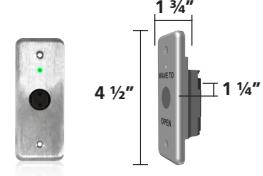
10MS51W-DP

Double gang, plain



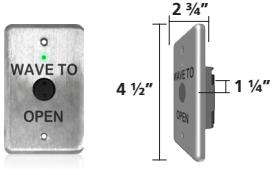
10MS51W-RP

Round gang, plain



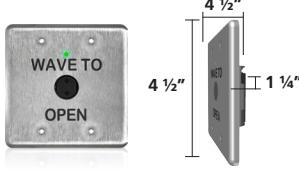
10MS51W-JP

Jamb gang, plain



10MS51W-ST

Single gang with "wave to open" text only



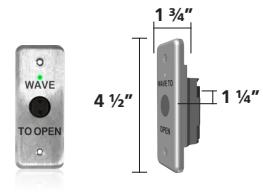
10MS51W-DT

Double gang with "wave to open" text only



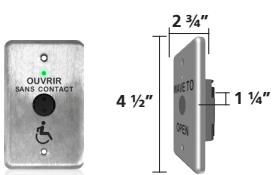
10MS51W-RT

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



10MSBOXRNDSM
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

| | |
|----------------------------|-----------------------------------|
| Technology | Active infrared |
| number of IR sensors | 2 |
| Radio control type | Digital |
| Frequency | 908 – 918 MHz (frequency hopping) |
| Emitted radio power | -25 dBm (transmitter) |

Detection range

| | |
|----------------------|--------------------------------------------------------------------------------|
| 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) |

| | |
|----------------------------------|----------------------------|
| Product temperature range | -22 – 158 °F (-30 – 70 °C) |
|----------------------------------|----------------------------|

ELECTRICAL

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

PHYSICAL

Dimensions (overall)

| | |
|-------------|--------------------------------------|
| single gang | 2 3/4" (W) x 4 1/2" (H) x 1 1/4" (T) |
| double gang | 4 1/2" (W) x 4 1/2" (H) x 1 1/4" (T) |
| round | 6" (H/W) x 1 1/4" (T) |
| jamb | 1 3/4" (W) x 4 1/2" (H) x 1 1/4" (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

| | |
|--------------------------|---------------------------------------------|
| IP rating | IP65 |
| FCC certification | FCC: 2ABWS-10TD900PB IC: 4680A-10TD900PB |

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