



# MS31

MICROWAVE TOUCHLESS ACTUATOR WITH ADJUSTABLE RANGE AND RELAY HOLD TIME

## DESCRIPTION

BEA's **MAGIC SWITCH® Family** utilizes proven microwave motion technology to ensure consistent, dependable touchless activation and can be adjusted to comply with the ANSI 156.10 knowing act standard.

The **MS31** detects moving objects such as a hand, cart or wheelchair and reduces touchpoints in high traffic areas commonly found in shopping and transportation centers. Applications requiring hygienic activation include hospitals, pharmacies, clean rooms and foodservice facilities.

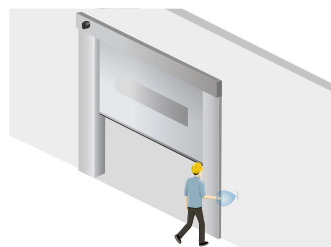
## APPLICATIONS



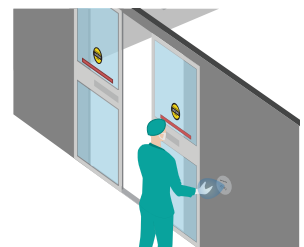
Full Energy Swing Doors



Low Energy Swing Doors



Industrial Doors

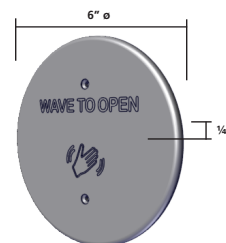
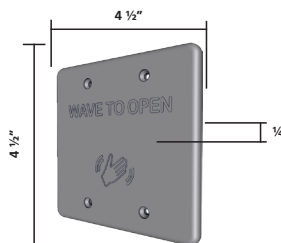
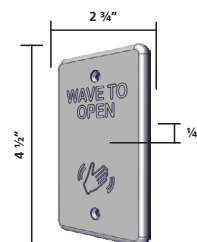
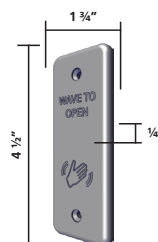


Healthcare Environments



## TECHNICAL SPECIFICATIONS

|                          |   |
|--------------------------|---|
| <b>Technology</b>        | Microwave Doppler Radar                       |
| Radiated Frequency       | 24.125 GHz                                    |
| Radiated Power Density   | < 5 mW / cm <sup>2</sup>                      |
| <b>Detection Mode</b>    | Motion (bidirectional)                        |
| <b>Detection Range</b>   | 4 – 24" (adjustable)                          |
| <b>Output</b>            | Relay with switch-over contact (voltage-free) |
| Max. Contact Voltage     | 60 VDC / 125 VAC                              |
| Max. Contact Current     | 1 A (resistive)                               |
| Max. Switching Power     | 30 W (DC) / 60 VA (AC)                        |
| <b>Output Hold Time</b>  | 0.5 – 30 s                                    |
| <b>Supply Frequency</b>  | 50 – 60 Hz                                    |
| <b>Supply Voltage*</b>   | 12 – 24 VAC ±10%, 12 – 24 VDC +30% / -10%     |
| <b>Power Consumption</b> | < 1.5 W                                       |
| <b>Weight</b>            | 0.34 lbs                                      |
| <b>Material</b>          | PC, PE  |
| <b>Temperature Range</b> | -4 – 131 °F (-20 – 55 °C)                     |
| <b>IP Rating</b>         | IP54  |
| <b>Dimensions</b>        |   |
| Jamb Plate               | 4 ½" (H) × 1 ¾" (W) × ¼" (T)                  |
| Single Gang              | 4 ½" (H) × 2 ¾" (W) × ¼" (T)                  |
| Double Gang              | 4 ½" (H) × 4 ½" (W) × ¼" (T)                  |
| Round Plate              | 6" (D) × ¼" (T)                               |
| <b>Certification</b>     |   |
|                          | EMC: 2004 / 108 / EC                          |
|                          | FCC: G9B-210161                               |
|                          | IC: 4680A-210161                              |



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