**MS31**

MICROWAVE TOUCHLESS ACTUATOR WITH ADJUSTABLE RANGE AND RELAY HOLD TIME

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**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.

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**Adjustable Detection Zone**

Detection zone from 4 to 24 inches (pulse or toggle)

**Adjustable LED Setting**

Dipswitch position determines if LED illuminated when in detection or when not in detection

**Silent Activation**

Silent activation for hospitals and other noise-sensitive environments

**Durable Design**

IP55 rated enclosure for protection against outdoor weathering and daily cleaning

**Various Faceplates Available**

Available in black, gray and white faceplate; options include jamb style, single-gang, double-gang and 6 inch round

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Watch the product video

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**TECHNOLOGY**

Silent Activation

Durable Design

Various Faceplates Available

**CERTIFICATIONS**

FCC

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**VIDEO**

Watch the product video

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DRAFT
APPLICATIONS

Full Energy Swing Doors
Low Energy Swing Doors
Industrial Doors
Healthcare Environments

PRODUCT SERIES

10MS31U - B/G/W
Black, gray or white, kit with single and double gang

10MS31J - B/G/W
Black, gray or white, kit with jamb

10MS31R - B/G/W
Black, gray or white, kit with 6” round

900 MHz Receiver

10RD900
900 MHz Receiver

10TD900TR
900 MHz retrofit transmitter

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Technology</th>
<th>Microwave Motion Sensor</th>
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<tbody>
<tr>
<td>Radiated Frequency</td>
<td>24.125 GHz</td>
</tr>
<tr>
<td>Radiated Power Density</td>
<td>&lt; 5 mW / cm²</td>
</tr>
<tr>
<td>Detection Mode</td>
<td>Motion (bidirectional)</td>
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<tr>
<td>Detection Range</td>
<td>4 – 24” (adjustable)</td>
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<tr>
<td>Output</td>
<td>Relay with switch-over contact (voltage-free)</td>
</tr>
<tr>
<td>Max. Contact Voltage</td>
<td>60 VDC / 125 VAC</td>
</tr>
<tr>
<td>Max. Contact Current</td>
<td>1 A (resistive)</td>
</tr>
<tr>
<td>Max. Switching Power</td>
<td>30 W (DC) / 60 VA (AC)</td>
</tr>
<tr>
<td>Output Hold Time</td>
<td>0.5 – 30 s</td>
</tr>
<tr>
<td>Supply Frequency</td>
<td>50 – 60 Hz</td>
</tr>
<tr>
<td>Supply Voltage*</td>
<td>12 – 24 VAC ±10%, 12 – 24 VDC ±30% / -10%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>&lt; 1.5 W</td>
</tr>
<tr>
<td>Weight</td>
<td>0.34 lbs</td>
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<tr>
<td>Material</td>
<td>PC, PE</td>
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<tr>
<td>Temperature Range</td>
<td>-4 – 131 °F (-20 – 55 °C)</td>
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<tr>
<td>IP Rating</td>
<td>IP55</td>
</tr>
<tr>
<td>Certification</td>
<td>EMC: 2004 / 108 / EC</td>
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*To be operated from SELV-compatible power supplies only

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