IS40 / IS40XL
MOTION & PRESENCE SENSOR FAMILY FOR INDUSTRIAL DOORS

DESCRIPTION
BEA’s IS40 / IS40XL are dual technology sensors designed to provide motion and presence detection in industrial applications.

The standard IS40 can be mounted from 96 to 192 inches (8 ft × 16 ft) to fit any industrial application. For lower mounting heights, BEA’s IS40XL can be mounted from 78 to 138 inches (6.5 ft × 11.5 ft).

Housed in a rugged NEMA 4 rated enclosure, the IS40 / IS40XL will operate in harsh environments, capable of withstanding damage caused by wind-blown dust and rain and hose-directed water.

FEATURES & BENEFITS
• Bidirectional, unidirectional approach and unidirectional depart microwave detection options
• Six modes of detection filtering are available for microwave immunity, as well as pedestrian and parallel traffic rejection
• Nine unique infrared patterns capable of highly flexible presence detection in any industrial environment
• Up to seven minimum object targets
• Adjustable infrared immunity modes mitigate environmental disturbances such as subtle door vibrations, light and sun
• Remote control programming enables user to quickly and safely make changes from the ground (sold separately)
**Technology**
- Microwave Doppler Radar

**Detection Mode**
- Motion
- Presence

**LED Signal**
- Green (Activation Relay)
- Red (Presence Relay)

**Transmitter Frequency / Wavelength**
- 24.150 GHz / 875 nm

**Transmitter Power Density**
- < 5 mW / cm² / < 250 mW / m²

**Max. Detection Field**

<table>
<thead>
<tr>
<th>Model</th>
<th>IS40</th>
<th>IS40XL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width</td>
<td>156 in × 198 in</td>
<td>120 in × 120 in</td>
</tr>
<tr>
<td>Height</td>
<td>156 in × 78 in</td>
<td>90 in × 90 in</td>
</tr>
</tbody>
</table>

**Output Hold Time**
- 0.5 s – 9 s
- 0.5 s

**Min. Detection Speed**
- 2 in / s in sensor axis
- 0 in / s

**Tilt Angle**
- –8º – 22º (Relative to sensor face)
- 15º – 45º (Relative to sensor face)

**Mains Frequency**
- 50 – 60 Hz

**Power Consumption**
- < 3.5 W

**Relay Output**
- 2 relays (free of potential change-over contact)

<table>
<thead>
<tr>
<th>Voltage</th>
<th>42 VAC / VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current</td>
<td>1 A (resistive)</td>
</tr>
<tr>
<td>Switching Power</td>
<td>30 W (DC) / 48 VA (AC)</td>
</tr>
</tbody>
</table>

**Installation Height**

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<tr>
<td>Height</td>
<td>96 in – 192 in (8 ft – 16 ft)</td>
<td>78 in – 138 in (6.5 – 11.5 ft)</td>
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</table>

**Temperature Range**
- –22 ºF – 140 ºF

**Dimensions**
- 3.75 in (W) × 4 in (H) × 5 in (D)

**Materials**
- ABS & Polycarbonate

**Cable Length**
- 360 in (30 ft)

**Degree of Protection**
- NEMA 4 / IP65

**Norm Conformance**
- R&TTE: 1999 / 5 / EC
- EMC 2004 / 108 / EEC