The Patriot Sensing Edge System is designed to provide a Non-Contact safe-guarding solution for motorized overhead doors.

The system includes a light emitting eye and a receiving eye which easily mount to and travel with the leading edge of the door. When the infrared beam becomes blocked by an obstruction, the operator is sent a signal to stop and reverse the motion of the door.

The Patriot system incorporates self-monitored circuitry so that a loss of power, short, or blocked IR signal will signal the motor to stop and/or reverse to an open position.

OPTIONS:
- MIRF-Z2: 30 ft max. range; fail-safe
- MIRF-Z2-50: 50 ft max. range; fail-safe
- MIRM-Z2: 30 ft max range; monitored
- MIRM-Z2-50: 50 ft max range; monitored

FUNCTIONAL BENEFITS
- Meets current UL325 standards for commercial door and gate operators*
- Thru Beam technology minimizes false reflective signals
- Travels with the door
- Easy to Align
- No need to stock special sizes - works up to 30 feet wide or, up to 50 ft wide
- Convenient - Assemble and install in the field
- NEMA4 enclosure provides added protection from water spray, dirt and dust
- Self Monitoring circuitry
- On Board diagnostic assist with troubleshooting

* Applies to select models only when used as a primary entrapment protection device with a UL325-2010 Listed CDO

TECHNICAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Dimensions: PE Housings</th>
<th>9.75 in L x 2.00 in W x 1.25 in H (247.5 mm L x 51 mm W x 32 mm H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ratings</td>
<td>NEMA 4, Class 2, IP65</td>
</tr>
<tr>
<td>PE Housing Material</td>
<td>PVC</td>
</tr>
<tr>
<td>Detection Technology</td>
<td>Infrared Thru-beam</td>
</tr>
<tr>
<td>Wavelength</td>
<td>940nm</td>
</tr>
<tr>
<td>Response Time</td>
<td>&lt;20msec</td>
</tr>
<tr>
<td>Alignment Angle</td>
<td>±10°</td>
</tr>
<tr>
<td>Alignment Indicator</td>
<td>LED</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-40°F to 185°F -40°C to 85°C</td>
</tr>
</tbody>
</table>

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## TECHNICAL SPECIFICATIONS:

<table>
<thead>
<tr>
<th></th>
<th>MIRF-Z2</th>
<th>MIRF-Z2-50</th>
<th>MIRM-Z2</th>
<th>MIRM-Z2-50</th>
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<tbody>
<tr>
<td><strong>Maximum Range</strong></td>
<td>30 ft</td>
<td>50 ft</td>
<td>30 ft</td>
<td>50 ft</td>
</tr>
<tr>
<td></td>
<td>9.1m</td>
<td>15.2 m</td>
<td>9.1m</td>
<td>15.2 m</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>8-30 VAC / 12-42 VDC</td>
<td>8-30 VAC / 12-42 VDC</td>
<td>Monitored PE terminal</td>
<td>Monitored PE terminals</td>
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<tr>
<td><strong>Relay Rating</strong></td>
<td>10A@120VAC / 8A@30VDC</td>
<td>10A@120VAC / 8A@30VDC</td>
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<tr>
<td><strong>Certification</strong></td>
<td>UL325 - 2010, UL991</td>
<td>UL325 - 2010, UL991</td>
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<tr>
<td><strong>Controller Dimensions</strong></td>
<td>1.75 in. x 4.62 in. x 1.75 in.</td>
<td>1.75 in. x 4.62 in. x 1.75 in.</td>
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<td><strong>Rating</strong></td>
<td>NEMA 4, Class 2, IP65</td>
<td>NEMA 4, Class 2, IP65</td>
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<tr>
<td><strong>Current Consumption</strong></td>
<td>Relay Energized 36mA@24VAC</td>
<td>Relay Energized 36mA@24VAC</td>
<td>Relay De-Energized 15mA@24VAC</td>
<td>Relay De-Energized 15mA@24VAC</td>
</tr>
</tbody>
</table>

## WARRANTY

We will replace within two years of shipment from our factory, any Patriot subject to normal use which is found to have defective materials or workmanship, as determined solely by our factory representative. Replacements will be shipped to you freight collect. This warranty is void where evidence of misuse or abuse is present.