SAFETY SENSORS FOR DOORS AND GATES

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Safety Sensors
The safety sensors from VITECTOR form the heart of its safety solutions. A pair of optical transmitter and receiver sensors create an opto-electronic dynamic safety signal. Each sensor PCB is water-tight sealed with polyurethane resin rendering it completely unaffected by dust or moisture.

Optical Sensing Edge
OPTOEDGE safety edges consist of the standard sensors plugged into the hollow chamber of a rubber profile. Inside they form an infrared-light barrier and as soon as the edge hits an obstacle, the chamber collapses and light communication is disrupted. This is recognized by the door control and the door is stopped. Manufacturing the edge is as easy as measuring, and cutting the rubber and afterwards plugging in the sensors.

Optical edges are distinguished by their high reliability and resistance to mechanical influences. These edges are in full function, even if the rubber profile is ripped. Intelligent self-adjusting light intensity means the edge is similarly sensitive at all door widths.

Optical Photo Eye
The same exact sensors as for the edges are used in the OPTOEDGE. Instead, they are inserted into flexible rubber adapters, which are mounted next to the door opening. Assembly can be done without tools and LEDs ease installation by indicating alignment and power of the sensors. The OPTOEDGE is especially designed to withstand the rough conditions of commercial and industrial applications and its flexible design makes it highly resistant to impacts and other mechanical influences.

<table>
<thead>
<tr>
<th>Interface</th>
<th>Dynamic 2-wire (Photo Eye IR interface)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental protection</td>
<td>NEMA 6 Rating (comparable to IP68)</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>- 13 °F … + 167 °F</td>
</tr>
<tr>
<td>Compliance</td>
<td>UL325 – 2010</td>
</tr>
<tr>
<td>Color of the Sealing Compound</td>
<td>Transmitter: grey</td>
</tr>
<tr>
<td></td>
<td>Receiver: black</td>
</tr>
</tbody>
</table>
SAFETY SYSTEMS

OPTOEDGE (OSE)
- UL325 Recognized Sensing Edge
- No lead time; no custom length ordering
- Smart logistics – compilation of components
- Easy assembly, without adhesives
- High mechanical stability
- High resistance to environmental influences
- Simultaneously acts as a weatherseal
- Maintenance free
- Patented

OPTOEYE (OPE)
- UL325 Recognized Photo Eye
- Smart logistics – compilation of components
- Visible LEDs indicate Power and Alignment
- Tough material to withstand commercial and industrial settings
- Flexible design withstands mechanical impacts
- High resistance to environmental influences
- Height adjustable with supplied wingnut

<table>
<thead>
<tr>
<th>Maximum Length</th>
<th>30 feet</th>
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</thead>
<tbody>
<tr>
<td>Material</td>
<td>EPDM Rubber Extrusion</td>
</tr>
<tr>
<td>Profiles Available</td>
<td>Rolling Door Sectional Door</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Maximum Range</th>
<th>45 feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Thermoplastic Elastomer Molding</td>
</tr>
<tr>
<td>Environmental Protection</td>
<td>NEMA 4 Rating</td>
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</table>
The VITECTOR brand is a FRABA Group company, which emerged from Franz Baumgartner Fabrik elektr. Apparate GmbH.

**History**
Franz Baumgartner founded his company in 1918. When he retired in 1968 he employed over 400 people and FRABA was a recognized innovation leader in relays and control systems for industrial applications. In 1994 a young team took over and reignited the spirit of dynamic innovation. Since that time there has been continual growth in market share and world-wide customer base.

**Market**
With functionality and efficiency through innovative designs and excellent service, FRABA Group companies have achieved market leading positions in technically demanding niches of industrial automation markets in Europe, North America and Asia.

**Structure**
FRABA Group companies are completely independent with their own R&D, manufacturing, and marketing resources. They have become separate legal entities. All shares are owned by the FRABA AG holding company.

**System**
Common guiding principles that translate into explicit R&D, manufacturing, marketing and personnel development principles in combination with the FRABA employee stock ownership plan are the basis for a comprehensive common leadership system.

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