Optic Sensors

LVF-200A-R Series

- Pulsed, Infrared Light Excitation (Leak Detection Solution)
- SPST Relay Standard
- Impervious to Most Ambient Light Conditions
- Mounted any Orientation, Wet or Dry
- NEMA 6 (IP68) Submersible Sensor and Cable

The LVF-200A-R Series optic sensor creates a pulsed beam of infrared light which is reflected on the oblique flat sensor tip. If the tip is dry, the light beam is recognized and if it is wet, the beam reflects back into the liquid. The optic sensor is factory calibrated for use with clear or translucent liquids. The shape and optic characteristics of the oblique flat optical surface provide a high level of optical efficiency, including resistance to ambient light and process condensation. Although the sensor offers very broad liquid compatibility, it is not recommended for use with coating or highly specular liquids. Ideal for leak detection.

Specifications
- Accuracy: ±1 mm (0.04") in water
- Repeatability: ±0.5 mm (0.02") in water
- Operating Principle: Pulsed, infrared light beam
- Voltage Input: 12 to 36 Vdc @25 mA
- Relay: 60 VA, 1 A maximum
- Switch Mode: Selectable, SPST, NO or NC states
- Wetted Materials: Polypropylene (PP) or Perfluoroalkoxy (PFA)
- Loop Resistance: 600 Ω @ 24 Vdc
- Maximum Pressure Rating PP: 150 psi @ 25°C (76°F) derated @ 1.667 psi per °C above 25°C (76°F)
- Maximum Temperature Rating: -40 to 90°C (-40 to 194°F)
- Enclosure Rating: NEMA 6 (IP68) submersible sensor and cable
- Cable Length: 3 m (10')
- Max. Cable Length: 305 m (1000')
- Dimensions: 7.6 or 11.4 L x 2.7 cm Dia (3.0 or 4.5 x 1.05") ¾ NPT or ¾ G

To Order

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Material</th>
<th>Length</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>LVF-210A-R</td>
<td>Optic sensor</td>
<td>PP</td>
<td>7.6 cm (3&quot;)</td>
<td>¼ NPT</td>
</tr>
<tr>
<td>LVF-211A-R</td>
<td>Optic sensor</td>
<td>PFA</td>
<td>7.6 cm (3&quot;)</td>
<td>¾ NPT</td>
</tr>
<tr>
<td>LVF-212A-R</td>
<td>Optic sensor</td>
<td>PP</td>
<td>11.4 cm (4.5&quot;)</td>
<td>¾ NPT</td>
</tr>
<tr>
<td>LVF-213A-R</td>
<td>Optic sensor</td>
<td>PFA</td>
<td>11.4 cm (4.5&quot;)</td>
<td>¾ NPT</td>
</tr>
<tr>
<td>LVF-210A-G-R</td>
<td>Optic sensor</td>
<td>PP</td>
<td>7.6 cm (3&quot;)</td>
<td>¾ G</td>
</tr>
<tr>
<td>LVF-211A-G-R</td>
<td>Optic sensor</td>
<td>PFA</td>
<td>7.6 cm (3&quot;)</td>
<td>¾ G</td>
</tr>
<tr>
<td>LVF-212A-G-R</td>
<td>Optic sensor</td>
<td>PP</td>
<td>11.4 cm (4.5&quot;)</td>
<td>¾ G</td>
</tr>
<tr>
<td>LVF-213A-G-R</td>
<td>Optic sensor</td>
<td>PFA</td>
<td>11.4 cm (4.5&quot;)</td>
<td>¾ G</td>
</tr>
</tbody>
</table>

Comes complete with operator’s manual.
Ordering Example: LVF-210A-R, PP optic sensor, 3 x ¾ NPT.
LVF-213A-R, PFA optic sensor, 4.5 x ¾ NPT.