

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') 4 conductor shielded

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") $\frac{1}{4}$ NPT or $\frac{1}{4}$ G

To Order

Model No.	Description	Material	Length	Thread
LVF-210A-R	Optic sensor	PP	7.6 cm (3")	$\frac{1}{4}$ NPT
LVF-211A-R	Optic sensor	PFA	7.6 cm (3")	$\frac{1}{4}$ NPT
LVF-212A-R	Optic sensor	PP	11.4 cm (4.5")	$\frac{1}{4}$ NPT
LVF-213A-R	Optic sensor	PFA	11.4 cm (4.5")	$\frac{1}{4}$ NPT
LVF-210A-G-R	Optic sensor	PP	7.6 cm (3")	$\frac{1}{4}$ G
LVF-211A-G-R	Optic sensor	PFA	7.6 cm (3")	$\frac{1}{4}$ G
LVF-212A-G-R	Optic sensor	PP	11.4 cm (4.5")	$\frac{1}{4}$ G
LVF-213A-G-R	Optic sensor	PFA	11.4 cm (4.5")	$\frac{1}{4}$ G

Comes complete with operator's manual.

Ordering Example: LVF-210A-R, PP optic sensor, 3 x $\frac{1}{4}$ NPT.

LVF-213A-R, PFA optic sensor, 4.5 x $\frac{1}{4}$ NPT.