

Guided Radar Level Sensor

LFP Inox



Features:

- Level measurement in hygienic applications
- Rod probe can be cut to length manually up to 4,000 mm with Ra ≤ 0.8 μm
- Process temperature up to 180°C, process pressure up to 16 bar
- CIP/SIP-resistant
- High enclosure rating: IP 67 and IP 69K, autoclavable



Description:

The LFP Inox is a hygienic level sensor for liquids using TDR technology – a process for determining the time of flight of electromagnetic waves. The time difference between the sent pulse and the reflected pulse is used to generate a level signal, both as a continuous value (analog output) and a freely positionable switching point (switching output).

The use of FDA-compliant materials in an EHEDG-certified design means that the LFP Inox can be relied upon for optimum and unrestricted cleaning, even in applications with the most stringent hygiene requirements.

Its modular connection system allows simple and flexible installation in any application. Thanks to high temperature and pressure resistance, unrestricted use is possible under CIP and SIP conditions. This impressive profile is topped off with communication capability via IO-Link to the superordinate control units.

Applications:

- Level monitoring in buffer tanks of filling systems and filling machines
- Level monitoring in rinsing systems
- Level monitoring in CIP systems
- Level measurement in mixing systems in the cosmetics and pharmaceuticals industry
- Level monitoring in industrial processes with difficult ambient conditions

Technical Data Overview

Measurement principle	TDR sensor
Detection principle	Contact
Medium	Fluids
Measurement	Switch, continuous
Process temperature	-20°C ... +180°C
Process pressure	-1 bar... +16 bar
Output signal	1 x PNP + 1 x PNP/NPN + 4 mA ... 20 mA / 0 V ... 10 V
Accuracy of sensor element	± 5 mm
Measuring range	200 mm ... 4,000mm

General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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