# Intelligent solutions for level and point level measurement

LFP Inox and LFP Cubic level sensors

Waldkirch, September 2017 – With its LFP Inox and LFP Cubic level sensors, SICK offers solutions that are suitable for a wide range of applications in the area of level and point level measurement. The sensor variants feature differ probe lengths and probe types, for example, and therefore cover fields of application in the food, beverage and pharmaceutical industries, permitting realization of highly efficient processes.

LFP Cubic and LFP Inox sensors operate according to the TDR measurement principle (TDR: time domain reflectometry). This “guided microwave” principle determines the propagation times of electromagnetic waves. A level signal is generated from the time difference between the transmitted and reflected pulses. The sensor can output this signal as a continuous measured value (analog value) and can additionally derive freely positionable switching points from the signal (switching output).

The procedure ensures maximum reliability and the best possible measurement results: Factors such as pressure, temperature, vacuum or dust have no significant impact. The specially developed foam mode allows LFP sensors to be also used for highly foaming media.

**LFP Cubic – Flexible up to the probe tip**

The LFP Cubic is compatible for use in virtually any liquid. Thanks to its modular probe, the sensor can be integrated quickly into any application. The sensor can even be used in deposit-forming and foaming liquids. The sensor’s intuitive setup uses four pushbuttons and a display to ensure quick and easy adaptation to the measuring task. Separate electronics, IO-Link interface, and a design which features a process connection in titanium are additional features for versatile use.

**LFP Inox – The clean solution**

The LFP Inox is a hygienic level sensor for liquids. 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.

Picture: LFP\_IM0057468.jpg

SICK LFP Inox and LFP Cubic level sensors offer the ideal solution for demanding level measurement requirements.

SICK is one of the world’s leading producers of sensors and sensor solutions for industrial applications. The company, which was founded in 1946 by Dr Erwin Sick and has its headquarters in Waldkirch im Breisgau near Freiburg in Germany, is among the technology market leaders. With more than 50 subsidiaries and equity investments as well as many agencies, SICK has a presence all over the world. In the 2016 fiscal year, SICK had more than 8,000 employees worldwide and a group revenue of just under EUR 1.4 billion.  
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