

# LFC

Flexible and straightforward point level measurement - the economic solution

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Measurement principle</b>	Capacitive level switch
<b>Detection principle</b>	Contact
<b>Medium</b>	Fluids
<b>Measurement</b>	Switch
<b>Process temperature</b>	-20 °C ... +100 °C, +135 °C for max. 1 h
<b>Process pressure</b>	-1 bar ... 64 bar (depending on type)
<b>Output signal</b>	2 x PNP/NPN, IO-Link
<b>Accuracy of sensor element</b>	Approx. 1 mm

### Product description

The LFC capacitive level switch is a flexible, simple and cost-effective solution for point level measurement in fluid media. Using IO-Link, the sensor can be parameterized for many media. The LFC is especially suitable for measurements in containers or for dry-run protection in piping. The level switch is easy to install and is characterized by a compact design and long service life. It withstands process pressures up to 64 bar. The LFC is also very easy to clean. Thanks to its hygienic design and the ability to use the sensor at process temperatures up to +135 °C, it is also suitable for CIP and SIP applications. The LFC can display or blank foam and deposits.

### At a glance

- Device preset to measure water-based media
- Process temperature: -20 °C to +100 °C (+135 °C for one hour)
- Process pressure: -1 bar to +64 bar
- Two digital PNP outputs with IO-Link
- Enclosure ratings: IP66, IP67, IP69
- Ideal for hygienic applications (EG1935/2004, FDA, CIP- and SIP-capable, hygienic adapter)

### Your benefits

- Maintenance-free point level measurement saves time and money
- Easy, cost-effective and fast installation thanks to plug and play
- Short cleaning cycles thanks to easy-to-clean sensor design
- Hygienic design reduces contamination risks
- Good price-performance ratio: cost-effective sensor with high measurement accuracy

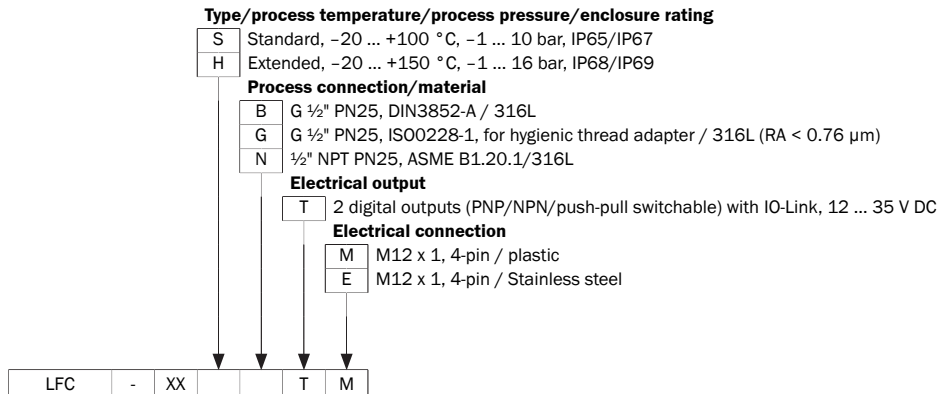
### Fields of application

- Empty detection and dry-run protection in piping
- Food and beverage industry
- Overfill protection and empty detection in tanks and other containers
- CO<sub>2</sub> recovery in breweries

## Type code

Other models and accessories → [www.sick.com/LFC](http://www.sick.com/LFC)

### Type code



Not all variants of the type code can be combined!

## Ordering information

Other models and accessories → [www.sick.com/LFC](http://www.sick.com/LFC)

- **Process connection:** G ½" PN 25, DIN 3852-A / 316L
- **Output signal:** 2 x PNP/NPN, IO-Link
- **Wetted parts:** Sensor tip PEEK, polished
- **Connection type:** M12 round connector x 1, 4-pin
- **Process temperature:** -20 °C ... +100 °C, +135 °C for max. 1 h
- **Enclosure rating:** IP66 / IP67 and IP69 (NEMA type 6P)

Housing material	Type	Part no.
Stainless steel 1.4404	LFC-XXSBTE	6086408
Stainless steel 1.4404, Plastic (Valox <sup>®</sup> )	LFC-XXSBTM	6077490

- **Process connection:** G ½" A PN25, ISO0228-1, for hygienic thread adapter / 316L (RA < 0.76 µm)
- **Output signal:** 2 x PNP/NPN, IO-Link
- **Wetted parts:** Sensor tip PEEK, polished
- **Connection type:** M12 round connector x 1, 4-pin
- **Process temperature:** -20 °C ... +100 °C, +135 °C for max. 1 h
- **Enclosure rating:** IP66 / IP67 and IP69 (NEMA type 6P)

Housing material	Type	Part no.
Stainless steel 1.4404	LFC-XXSGTE	6086409
Stainless steel 1.4404, Plastic (Valox <sup>®</sup> )	LFC-XXSGTM	6073811

- **Process connection:** ½" NPT PN25, ASME B1.20.1 / 316L
- **Output signal:** 2 x PNP/NPN, IO-Link
- **Wetted parts:** Sensor tip PEEK, polished
- **Connection type:** M12 round connector x 1, 4-pin
- **Process temperature:** -20 °C ... +100 °C, +135 °C for max. 1 h
- **Enclosure rating:** IP66 / IP67 and IP69 (NEMA type 6P)

Housing material	Type	Part no.
Stainless steel 1.4404	LFC-XXSNTTE	6086410
Stainless steel 1.4404, Plastic (Valox <sup>®</sup> )	LFC-XXSNTM	6073812

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

Contacts and other locations –[www.sick.com](http://www.sick.com)