

FXSL002



- **Fill-level measurement in all media: liquid, pasty, sticky or solid**
- **Process optimization with IO-Link 1.1**
- **Quick sensor replacement with data storage**
- **Two adjustable switching outputs**

LevelTech fill-level sensors work in accordance with the innovative frequency sweep principal. With the help of this functional principle, the sensors detect any desired medium on the basis of the measured resonant frequency. With their two adjustable switching outputs, the sensors are capable of differentiating between foam and liquid or two different media. Sensor parameters, as well as filter and output functions, can be individually configured via IO-Link. The stainless steel housing is FDA compliant and can be installed in the tightest of spaces thanks to its compact design.



Sensor-specific data

Measuring principle	Frequency sweep
Measuring Range	DK > 1,5
Medium	Liquids, granulate, powder
Response Time	0,04 s

Environmental conditions

Media temperature TM (TU < 50 °C)	-40...115 °C
Media temperature TM brief (TU < 50 °C, t < 1 h)	-40...130 °C
Ambient temperature	-40...85 °C
Storage temperature	-40...85 °C
Pressure Resistance	100 bar
EMC	DIN EN 61326 *
Vibration resistance per DIN IEC 60068-2-6	1,6 mm p-p (2...25 Hz), 4 g (25...100 Hz)

Electrical Data

Supply Voltage	8...36 V DC
Current Consumption (Ub = 24 V)	< 35 mA
Number of Switching Outputs	2
Power-up Time	< 3 s
Switching Output/Switching Current	100 mA
Switching Output Voltage Drop	< 0,7 V
Leakage Current	< 100 µA
Short Circuit Protection	yes
Reverse Polarity Protection	yes
Interface	IO-Link V1.1

Mechanical Data

Setting Method	IO-Link
Housing Material	1.4404
Material in contact with media	PEEK Natura 1.4404
Degree of Protection	IP67/IP69K
Connection	M12 × 1; 4-pin
Connector Plug Material	Stainless Steel
Process Connection	1/2" NPT

Safety-relevant Data

MTTFd (EN ISO 13849-1)	686 a
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Function

Attenuation (adjustable)	0...10 s
Selective fill-level measurement	yes

Configurable as PNP/NPN/Push-Pull	<input checked="" type="checkbox"/>
Switchable to NC/NO	<input checked="" type="checkbox"/>
IO-Link	<input checked="" type="checkbox"/>

Connection Diagram No.	704
Suitable Connection Equipment No.	2

* mounted in closed metal tank

Complementary Products

IO-Link Master Software	
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