

LFT0800-01A1A50







Level sensors TDR level sensor

Model Name > LFT0800-01A1A50

Part No. > 1045914

At a glance

- Time-of-flight measurement technology
- . Up to 4 switching outputs, combination of analog and digital outputs possible
- · Small deadband, ideal for small containers
- · Simple, single-button teach
- Flexible probe length up to 2,000 mm
- · No re-calibration necessary when fluid properties change
- · Measurement independent of installation conditions and tank material
- · Filter available for dirty and contaminated fluids

Your benefits

- · High resolution, accuracy, and repeatability
- Reliable measurement independent of liquid type, installation condition and tank material due to TDR technology
- One device performs the functionality for switching and continuous applications, reducing the number of sensors required
- · Reduced installation time and costs through high flexibility
- · No re-calibration necessary, saving commissioning time
- · A variety of available probe lengths meets the needs of many applications
- · No moving parts reduces maintenance costs

The product has been discontinued. Please follow the "replacement product" link for information about alternative products.



Features

Medium: Fluids

Measurement: Switch, Continuous

Probe length: 800 mm

Measurement range: 30 mm ... 790 mm

Process pressure: $\geq \leq 1$ bar Process temperature: $0 \,^{\circ}\text{C} \dots + 80 \,^{\circ}\text{C}$

WHG approval: GOST approval: ✓
UL approval: -

Illustration may differ

Performance

Resolution:≤ 1 mmAccuracy of sensor element: \pm 3 mmRepeatability:≤ 2 mmDielectricity constant:1.8Response time:200 ms

Mechanical data

Inactive area: Each 10 mm
Housing material: PBT
Process connection: G 3/4 A

Wetted parts: Stainless steel 316L/301, PBT, PTFE

Electrical data

Temperature drift: ± 0.05 mm/K Enclosure rating: ± 0.05 mm/K

Supply voltage: 18 V DC ... 30 V DC

Ripple: ≤ 5 Vpp

Power consumption: ≤ 90 mA at 24 V DC without output load

Protection class: III Initialization time: $\leq 4 \text{ s}$

Output signal: 1 x PNP + 4 mA ... 20 mA, 2 x PNP + 4 mA ... 20 mA, 4x PNP

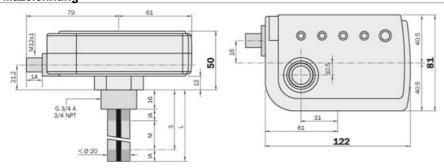
Output load: < 500 Ω Upper signal level: 20 ... 20.5 3.8 ... 4 Lower signal level: Hysteresis: 3 mm Signal voltage HIGH: Vs - 2 V $0 \text{ V} \leq 1 \text{ V}$ Signal voltage LOW: Capacitive load: < 100 nF Inductive load: ≤1 H

Connection type: Round connector M12 x 1, 5-pin

Ambient data

Ambient operating temperature: $-10 \,^{\circ}\text{C} \dots +60 \,^{\circ}\text{C}$ Ambient storage temperature: $-40 \,^{\circ}\text{C} \dots +80 \,^{\circ}\text{C}$

Mazeichnung



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