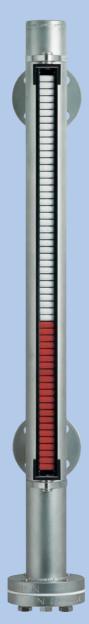
INTERIN

Bypass Level Indicator Model LM



- Measuring Length: max. 3 metres
- Pressure: max. 16 bar
- Temperature: max. 120°C
- Roller-type Indication, Transmitter
- Medium Density: 1 g/cm³ (0.9...1.13 g/cm³)
- Material: Stainless steel 1.4301
- Connection: DIN Flange DN 10...DN 25

Cost Effective Measurement Technology

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47

Bypass Level Indicator Model LM

40 mm, st. steel, 1.4571

Flange DIN-EN-1092-1

s. table

PN 16

Type 11, form B, DN 10...DN 25

Description

INTERIN bypass level indicators are used for continuous measurement, display and monitoring of liquid levels. The bypass tube is attached onto the side wall of the vessel.

According to the law of communicating tubes the level in the bypass tube equals the level in the vessel. A float with embedded magnets in the bypass tube follows the liquid level and transfers it in a non-contacting manner to a display fitted outside the tube or to a monitoring device.

The following indication and monitoring devices are available:

Magnetic roller indicator

As the float passes by, the red/white rollers are rotated in succession by 180° around their

own axes. The rollers change from white to red as the level rises and from red to white as the level falls. The level is continuously displayed as a red column, even when the power fails.

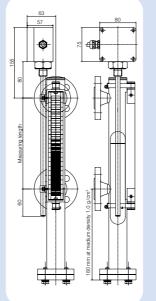
Transmitter

A magnetostrictive transmitter can be mounted outside the bypass tube to teletransmit the level. A continuous standard signal of 4 to 20 mA is output by means of a fitted transmitter.

Limit contacts

Reed contacts for limit-value acquisition or also for level control can be secured to the bypass tube.

Dimensions



Technical Details

Bypass tube: Connections:

Max. temperature: Max. pressure: Max. viscosity: Density: O-ring (flange): Max. meas. length: Total length: Indication error:

Installation position: Roller indication:

Limit Contacts

Contact operation: Switching hysteresis: Housing: Protection type: Max. switch capacity: 60 W/VA, 230 V / 1 A Electr. connection: Ambient temperature: max. 75°C Transmitter Measuring principle:

200 mm²/s 0.9...1.13 g/L (set density 1.0 g/L) FPM 3000 mm see drawing ± 20 mm deviation from the set density vertical Aluminium profile with Polypropylene rollers bistable Change-over contact

approx. 15 mm Polycarbonate IP 67 3 m PVC cable

Supply voltage: Output: Load: Accuracy: Protection type:

magnetostrictive 24 V_{DC}, max. 150 mA 4-20 mA max. 500 🗆 ± 1 mm IP 65

Applications

- Storage tanks
- Mixing vessels
- Tanks on ships
- Water tanks

Order Details (Example: LM-12D3)

Model	Indication	Medium	Flange	Allowed Medium
		max °C		Density
LM-12D3	Roller indication	120	DN 10	0.9 - 1.13 kg/L
LM-12D4	Roller indication	120	DN 15	0.9 - 1.13 kg/L
LM-12D5	Roller indication	120	DN 20	0.9 - 1.13 kg/L
LM-12D6	Roller indication	120	DN 25	0.9 - 1.13 kg/L
LM-22D3	Transmitter	80	DN 10	0.9 - 1.13 kg/L
LM-22D4	Transmitter	80	DN 15	0.9 - 1.13 kg/L
LM-22D5	Transmitter	80	DN 20	0.9 - 1.13 kg/L
LM-22D6	Transmitter	80	DN 25	0.9 - 1.13 kg/L
LM-32D3	Roller indication and transmitter	80	DN 10	0.9 - 1.13 kg/L
LM-32D4	Roller indication and transmitter	80	DN 15	0.9 - 1.13 kg/L
LM-32D5	Roller indication and transmitter	80	DN 20	0.9 - 1.13 kg/L
LM-32D6	Roller indication and transmitter	80	DN 25	0.9 - 1.13 kg/L
LM-R	Limit contact	100		

Please specify the measuring length »L« in writing.