

Magnetic Float Level Switch

MF-LS Series



LEVEX

Industrial Level Sensing Solutions

Magnetic Float Level Switch | MF-LS Series

Product Description

LEVEX MF-LS magnetic float level switches provide reliable point level detection for liquids in industrial tanks and vessels. The device uses one or more magnetic floats that actuate hermetically sealed reed switches located inside a stem/ guide pipe. The result is a robust, maintenance-free and highly reliable level detection solution suitable for water, fuel, oil, chemicals, and process liquids.

Key Features

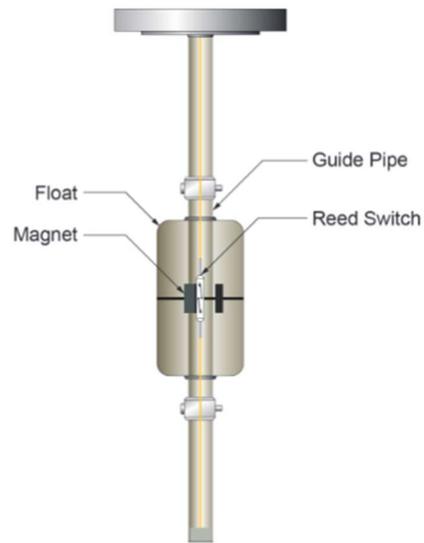
- Dry contact output: NO, NC, or change over
- Single, dual, or multiple switching points on one probe
- Stainless steel, TEFLON, or plastic wetted parts
- Long life cycle and High reliability
- Custom probe lengths and float spacing (as per customer requirements)
- Easy installation and minimal maintenance

Typical Applications

- Pump control
- High and low level alarms
- Overflow protection
- Dry-run protection
- Tank level monitoring
- Process automation

Operating Principle

A float containing a permanent magnet moves along the probe according to the liquid level. When the float reaches a preset position, its magnetic field activates a hermetically sealed reed switch inside the stem. This changes the electrical contact state, providing a precise switching signal for alarms, relays, or PLC inputs.



Specifications

Parameter	STAINLESS STEEL (std.)	PVC	TEFLON
Wetted material	STAINLESS STEEL	PVC	TEFLON
Probe length	100~4000mm	100~4000mm	100~2000mm
Process connection	NPT 2.5" (std.)	Flange (std.)	
Enclosure	Aluminium, TEFLON, SS, plastic		
Repeatability	±5 mm typical		
Switching differential	5–30 mm (depends on float size)		
Contact rating*	Switching Voltage (Max) Switching Current (Max)	200 VDC / 140 VAC 0.5 A (Resistive)	
Response time	<50 mSec		
Process temp.	-20 °C to +80 °	-20 °C to +60 °	-20 °C to +80 °
Ambient temp.	-20 °C to +60 °C		
Storage temp.	-40 °C to +60 °C		
Humidity	0–95 % RH (non-condensing)		

*The contacts are used for signal switching only, For load switching please use external power relays, (**FLC_V1.4E** Level controller is available for order)

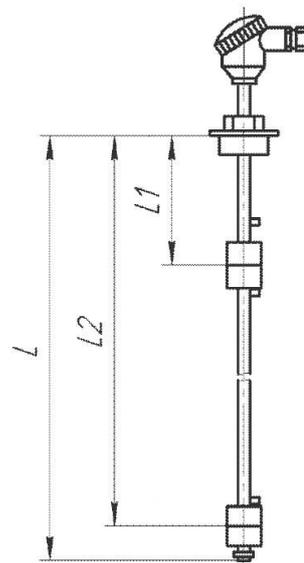
Ordering Information

Model Coding: LEVEX-MF-LS-[Points][Contact]-[Length mm]-[Material]-[Connection]

Example: **LEVEX-MF-LS-2NO-1000- SS-Flange**

Specify:

1. Number of switching points [1, 2, 3, 4]
2. Contact type: [NO, NC, NO+NC]
3. Probe length: 100~4000mm
4. Wetted material: [STAINLESS STEEL, PVC, TEFLON]
5. Process connection: [Flange, Screw, custom]



Warranty

12 months from delivery against manufacturing defects.

Legal Disclaimer & Notice

Legal Disclaimer

The information contained in this document is provided for general guidance and technical reference purposes only. All specifications, descriptions, drawings, and performance data are subject to change without prior notice.

LEVEX products are supplied **“as is”** and are intended for use by qualified personnel familiar with industrial instrumentation and control systems. It is the responsibility of the user, installer, or system integrator to verify the suitability of the product for the intended application, operating conditions, and safety requirements.

LEVEX shall not be liable for any direct, indirect, incidental, or consequential damages resulting from improper selection, installation, use, or maintenance of the product.

Specification Change Notice

LEVEX reserves the right to modify product specifications, materials, dimensions, electrical characteristics, firmware, and performance parameters **without prior notice**, in the interest of continuous product improvement.

Actual product characteristics may differ from those described in this document depending on configuration, application conditions, and optional features.

Application Responsibility

The user is solely responsible for:

- Selecting the appropriate sensor type and configuration
- Ensuring compatibility with the process medium, temperature, pressure, and environment
- Verifying compliance with local safety regulations and standards
- Performing proper installation, calibration, and periodic inspection

LEVEX does not assume responsibility for system design, redundancy requirements, or safety interlocks.

Warranty Reference

Warranty terms are governed exclusively by the commercial agreement or quotation issued at the time of sale.

This document does not constitute a warranty or guarantee of performance.