



principle and characteristics

The structure of LF1000 series material (liquid) level switch is divided into two parts: main electrode and compensation electrode. A group of RF signals are applied between the main electrode and the compensating electrode respectively, so it has good adhesion resistance and material hang property. It is a new type of material/liquid level measuring product to replace the capacitor material level switch.

Strong versatility: widely used in the detection of various materials, such as: fly ash, particles, powder, liquid, viscous and other media can be; High temperature resistance up to 800°C, pressure up to 5MPa; Can be used for corrosion and impact and other places.

Anti-adhesion: the sensor probe can automatically correct the hanging material in the measurement process, without regular cleaning, which can avoid the occurrence of false measurement and false signal.

High reliability: the output contact capacity is large, the indicator light shows the working status, the switch has a built-in delay setting to eliminate the influence of medium fluctuation on the measurement of false positives, high stability, long service life

product application

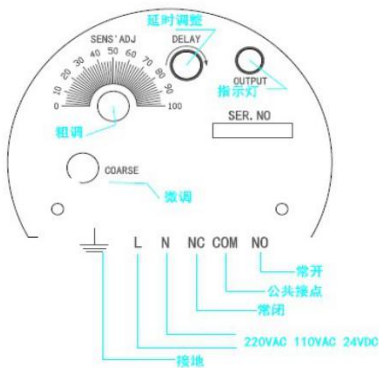
Mainly used in: chemical industry, oil field, paper making, pharmaceutical, power plant, metallurgy, cement, water and sewage treatment and other industries.

technical specification

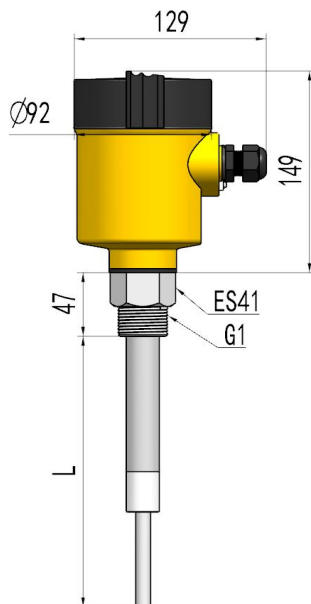
- ◆ Measuring range: 0.01~3m (rod type), 0.5~35m (cable type)
- ◆ Medium temperature: -200... 800°C Ambient temperature: -40... 80 °C
- ◆ supply voltage: AC220V/DC24V
- ◆ Signal output: relay SPDT (NO+NC)
- ◆ contact capacity: AC220V5A/DC24V5A
- ◆ Delay Settings: 0... Adjustable 30 s
- ◆ Sensitivity: 0.5pF, ± 0.05pF/10°C
- ◆ Loss of power protection: high and low mode, adjustable on site
- ◆ Protection grade: IP65, metal case, flameproof EXDIICT5
- ◆ Installation: Thread type: 1"NPT outer teeth (can be customized)

Flange type: DN25 (customizable)

wiring diagram



dimension figure



Selection table

LF1000-	1	R	A	N1	D	X	G	100	specification
LF1000-									LF1000系列物（液）位开关传感器
	1								no display
	2								digital display
		R							0.01 ~ 3 m pole
		C							00.5 ~ 35 m cable type
			A						PNPoutput
			B						NPNoutput
			C						relay output
			D						4-20mAoutput
				N1					External thread 1 "NPT
				D					DN25 flange
									Custom thread
					D				DC24V (4-20mA output type only)
					J				AC220V
						X			304SUS
						S			316LSUS
						P			PTFE
							G		80°C
							Z		200°C (Install radiator)
							D		400...800°C (Install radiator)
								100	L=100mm
								300	L=300mm
								XXX	0.01... 35m can be arbitrarily selected (unit: mm)

* The type selection table is only for technical selection, and the corresponding type of the factory model is reflected by the code.

installation instructions

