

A



B



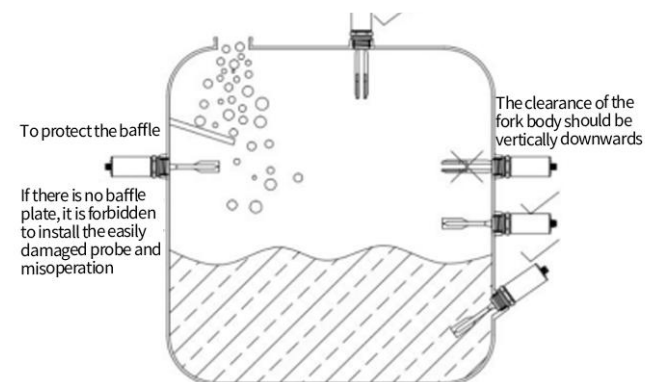
principle and characteristics

LF100 series tuning fork type material level limit switch is a kind of universal material level limit switch. Inspired by piezoelectric crystal a tuning fork produces an oscillation, when the tuning fork is liquid or solid immersion vibration frequency change, change the frequency by the electronic circuit electric parameters detected from the media and the turbulent, agitation, bubble, vibration, the influence of such factors as no moving parts, so no maintenance amount adjustment, is the ideal choice of the material level switch under complicated conditions.

product application

- ◆ Hydraulic/Lubrication
- ◆ Pump protection cooling system pulp
- ◆ water treatment
- ◆ food and beverage
- ◆ No moving parts
- ◆ is not affected by the density and electrical parameters of the medium
- ◆ stainless steel contact parts
- ◆ AC/DC power supply is optional
- ◆ relay output
- ◆ Normally on and normally off can be switched
- ◆ can be used for solid or liquid measurement
- ◆ Two electronic heads available (compact/rugged)

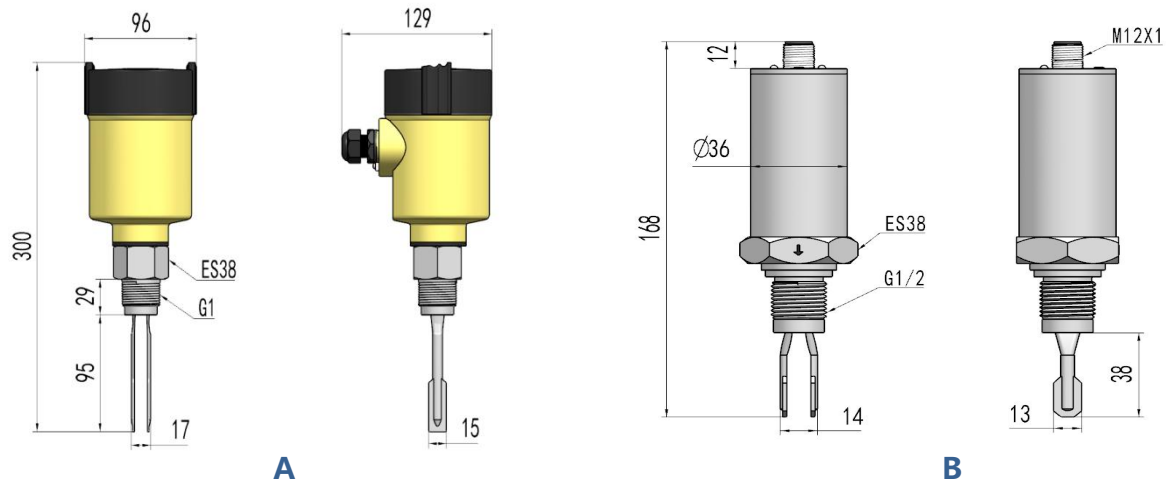
Installation Instruction



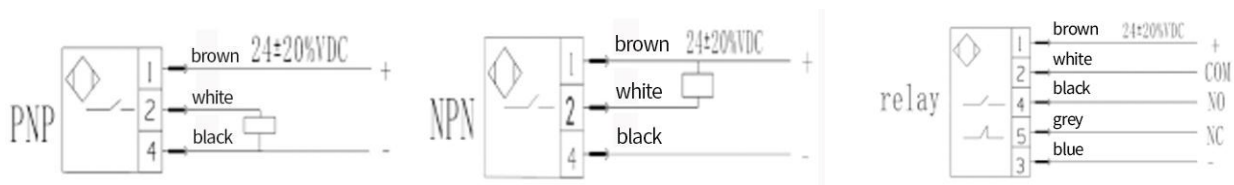
technical specification

Measuring Media	Liquid or solid particles
density measurement	≥0.6g/cm³
withstand voltage	20bar
Adjustable time delay	1... 20S (Rugged only)
response time	1s
DC supply type	24 ± 10%Vdc
AC powered type	110 vac or 220 vac
power dissipation	≤1W
switched output	
The output type	Relay (normally open, normally
load capacity	AC220V (110V)/3A,DC
Wiring protection	opposition
temperature	
operating	-20...80°C
medium temperature	-40...150°C
materials	
Compact housing	ess steel 304
Rugged case	Die cast aluminum
The fork body	tainless steel
protection class	IP65
wiring method	
Compact housing	M12 x 1 connector
Rugged case	amphenol connector

dimension figure



wiring diagram:



Type A wiring diagram

Type B wiring diagram

Selection table

LF100-	A	1	1	A	B	specification
LF100-						LF100 series tuning fork material (liquid) level switch
	A					Rugged case
	B					Compact housing
	C					Explosion-proof enclosure
		1				Hersman joint
		2				M12 x 1 connector
		3				amphenol connector
			1			Power supply: 24V DC
			2			Power supply: 110V AC
			3			Power supply: 220V AC
				A		G1 "female thread connection
				B		G1/2 male thread connection (Compact type only)
				C		flanged joint
					A	Standard tuning fork L=40 mm
					B	Standard tuning fork L=60 mm
					C	Standard tuning fork L=100 mm
					L...	Extended tuning fork L= mm

* The selection table is only available for parameter selection, and the corresponding code is delivered.