LF1000 -Vibrating Fork Level Switch

- No moving parts
- Measuring unaffected by medium density or electrical parameters
- Stainless steel wetted parts
- Relay output
- NC / NO programmable
- Applicable to the liquid or solid

The LF1000 is based on the principle of a tuning fork. A piezo-electric crystal oscillates the forks at their natural frequency. The frequency of the vibrating fork sensor changes depending on the medium in which it is immersed, this change is monitored and converted to standard electrical signals. Operating is unaffected by medium conductivity, turbulence, stirring, bubbles and vibrating. No moving parts enables it to be used in most tough applications.

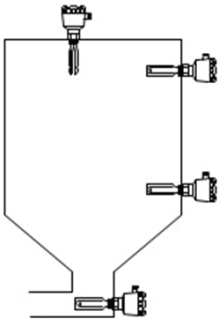
Specifications

Applicable Medium	Liquid or bulk-solid
Medium Density	≥0.6g/cm^3
Pressure Rating	20bar
Adjustable Delay	1…20s(only for rugged model)
Response Time	1s
Power Supply	
DC powered type	24±10%Vdc
Power Consumption	≤1W
Switching Output	
Output	Relay (NC/NOprogrammable)
Load	AC220V（110V）/3A, DC 30V/3A
Wiring Protection	Reverse polarity
Temperature	
Operating	-20…85℃
Medium	-20…85℃
Material	
Compact Housing	304 stainless steel
Fork	316 stainless steel
Protection Class	IP65
Electrical Connection	
Compact Housing	Solenoid plug
Process Connection	G male thread

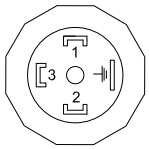
Applications

- Hydraulic/Lubrication system
- Pump protection
- Cooling system
- Paper making
- Water treatment
- Food/beverage industry

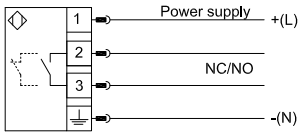
Installation



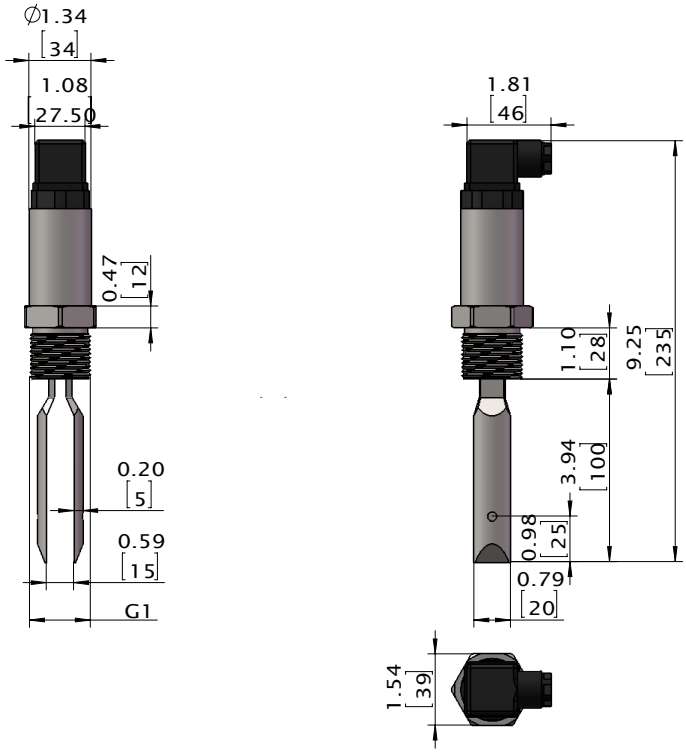
Wiring



Solenoid plug



Dimensions in inches (mm)



LEVEL

Model Number

LF :	Vibrating fork level switch
1000 :	Serial Number
024 :	24V DC power supply
110 :	110V AC power supply
220 :	220V AC power supply
G1 :	G1Male thread
R1 :	R1Male thread
1"NPT :	1"NPT Male thread

LF	1000/	024	G1	C	S	M100	/

C :	Compact housing R: Fastening explosion-proof
S :	Standard tuning fork
E :	Extended tuning fork
MXXX :	Probe length without thread
EXXX :	Probe length with thread

Note: M100 means the probe is 100mm long without threads;
E100 means the probe is 100mm long with threads.

Reserved bit

Providing Special Requirements

LEVEL