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.

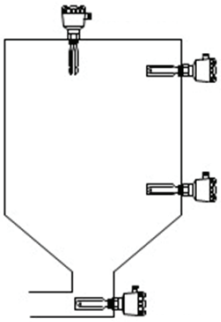
Specifications

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 external thread

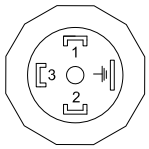
Applications

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

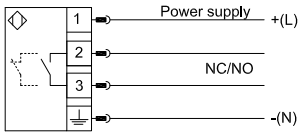
Installation



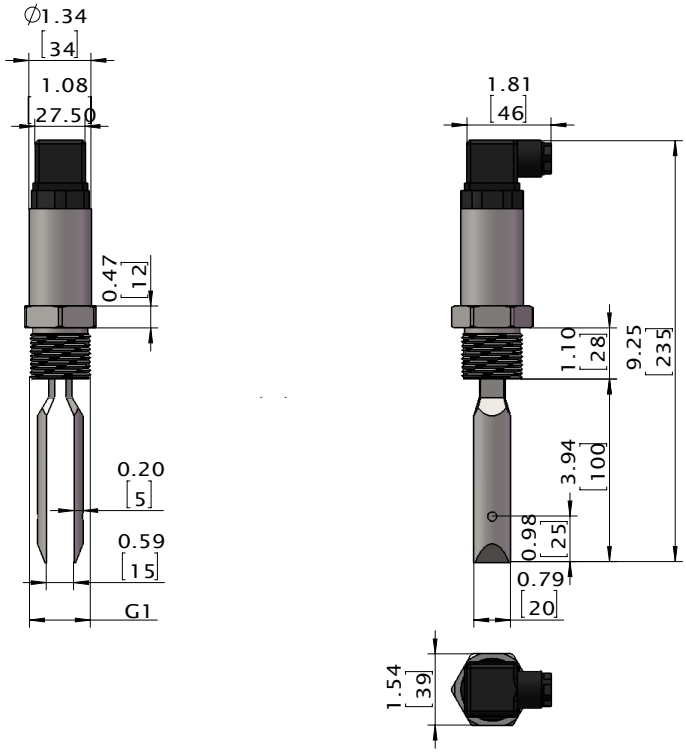
Wiring



Solenoid plug



Dimensions in inches (mm)



Model Number

OrderNO.	Type	Fork type S/E	Rod Length mm	Process Connection
LF1100	LF1000/024G1CSM100	S standard	100	G1

LEVEL