

VIBRATING FORK LEVEL SWITCH

VIBRATJ-VD is a universal level switch for use in all liquids. It has a high level accuracy, and can be used either full or empty. The whole design can easily be installed, requires little or no maintenance and offers maximum reliability in a wide application range.

Application area

The Vibrating fork level switch model **VD** is a point level switch for liquid level detection in storage tanks, tanks with agitators, and piping. It can be used as an alternative to float switches as in applications where build-up, turbulence, liquid flow and gas bubbles are present.

Technical Data of VD

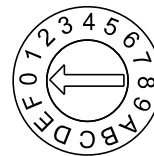
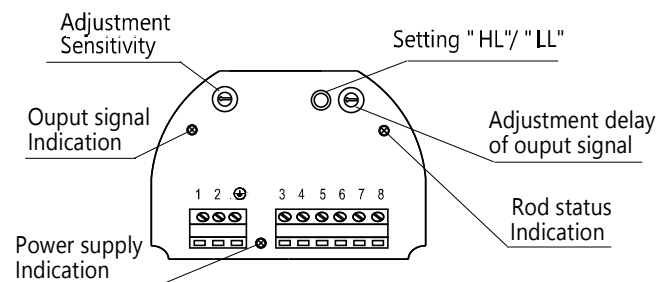
Operating Voltage	Autoadaptation 20-35V DC 30-250V AC
Power consumption	1.5W(Max.)
Isolation voltage	1500V(Min.)
Overvoltage protection	CAT III
Output	Relay DPDT (Double pole, Double Throw)
Output capacity	250VAC
Adjustable on delay timer	0-30s
Switching delay	< 0.5s
Electrical connections	M20X1.5
Ambient temperature	-40 to +70°C
Process temperature	-40 to +250°C
Process pressure	0.1~6.3 Mpa
Process fitting	Thread 1/2" or 3/4" BSPT
Material of probe	SUS 304/316L
Measuring range	4 m (max.)
Insertion Length	48 mm
Frequency	1200 Hz
Density of liquid	0.6g/cm3
Protection class:	IP67

VD series

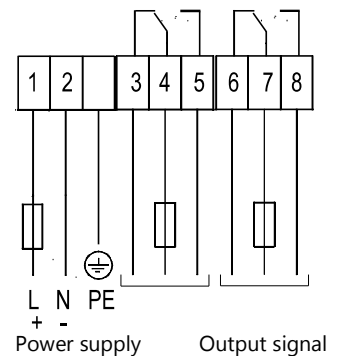
Vibrating Level Switch For liquids



Electrical connection



Setting sensitivity class A to F, or 0 to 8 depending medium density.



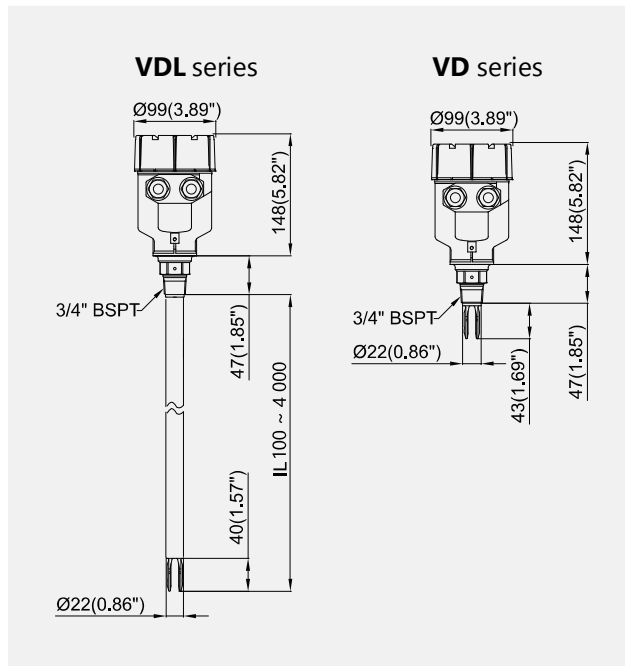
Output Signal Mode

Mode	Probe no covered in medium
HL	<ul style="list-style-type: none"> ⊗ Output signal Indication ⊗ Rod status Indication
LL	<ul style="list-style-type: none"> ⊙ Output signal Indication ⊗ Rod status Indication

Mode	Probe covered in medium
HL	<ul style="list-style-type: none"> ⊙ Output signal Indication ⊙ Rod status Indication
LL	<ul style="list-style-type: none"> ⊗ Output signal Indication ⊙ Rod status Indication

Specification Sheet

Dimension



Mode of alarm

In the figure "HL/LL" is button switch for alarm. High mode of alarm (lift up button HL) means that the relay alarms when material is higher than the level working point. Low mode of alarm (press LL button) means that the relay alarms when material is lower than the level switch working point.

Instrument is in the state of alarm when power off - relay is in the state of lose of power

Density setting

In the figure, clockwise rotation of "Sensitivity" gradually increases sensitivity

Delay

" Delay " in the figure is the adjustment knob for delay, the purpose is to make the instrument stable stable output. Clockwise rotation of the knob " Delay " increases the delay time. On the contrary, decreases. Time delay function is effective for the instrument only in the process of transformation from the alarm state to the normal state, that is to say, there is no time delay when instrument outputs alarm signal. In 0.5~30 seconds delay time is adjustable.

How to order

VD - 01 - 02 - 03 - 04 - 05 - 06 - 07 - 08

01) Series of Level Switch

VD Standard type
VDL Extended rigid rod series

02) Material of Housing

p Aluminum, not singht hole
PA PA: Aluminum, singht hole
S SUS304, not singht hole
SA SUS304, with singht hole

03) Level Switch Version

Blank General Industrial
EX Dust Explosion-Proof

04) Electrical Connection

M Double M20X1.5
N Double 1/2 NPT

05) Process Connection

B1 1/2' BSPT thread
B2 3/4' BSPT thread
G1 1/2' G Thread
G2 3/4' G Thread
N NPT Thread
F Flange

06) Process Temperature

A -20 to +80°C
T -40 to +150°C
H -40 to +250°C

07) Material of Probe

01 SUS 304
02 SUS 316L

08) Insertion length

Blank Standard, 48 mm
L500 500mm
.....

Indication Light

In the figure "Power" green power indicator light, green light indicates the instrument power supply is working normally; In the figure "Fail" the yellow working indicator light, dark yellow light indicates the instrument is working normally, the fork vibration is normal, bright yellow light indicates the fork stops vibrating; tops vibrating; In the figure "Alarm" red alarm indicator light, bright red light indicates the instrument output is in the state of alarm; On the contrary, alarm is removed when the red light darken.