



Vibex Plus™ LSVP

VIBRATING LEVEL SWITCH



DESCRIPTION

The Vibex Plus™ is a universal level switch for liquids. It reliably detects level within millimeter precision regardless of installation position. The Vibex Plus can be used as an empty or full detector, as overflow protection, dry run protection, or pump protection in vessels and pipelines. The artificial intelligence within the Vibex brain will ignore any coating or deposit on the sensors to provide trouble free service for years. The smart power supply can detect an AC power circuit or DC power. The DPDT relay can be used to switch a pump on or off and also provide a set of contacts for an audible alarm or light. The rugged enclosure provides protection in wet, dirty and hazardous environments.

SPECIFICATIONS

MATERIAL	
Process Fitting	316L
Tuning Fork	316L
Aluminum Die-Casting Housing	Aluminum die-casting AlSi10Mg, powder-coated - basis: Polyester
Stainless Steel Housing - Precision Casting	316L
Seal Between Housing and Housing Cover	NBR (stainless steel housing, investment casting), silicone (Aluminum/plastic housing, stainless steel housing, electro-polished)
LENGTH	
Sensor Length - 3/4" NPT	2.6 in (66mm)
PROCESS FITTING	
American Pipe Thread, Conical	3/4 NPT
High Voltage Test (Enamel)	< 5 KV
OUTPUT	
Turn-on Voltage Min.	10mV
Turn-on Voltage Max.	253 VAC, 253 VDC
Switching Current Min.	10 µA
Switching Current Max	3 A AC, 1 A DC
Contact Capacity Min.	50 mW
Contact Capacity Max.	750 VA AC, 54 W DC *Note: The contact is no longer suitable for switching low-level signal circuits

CONTACT MATERIAL	
Relay Contacts	Material: Copper
MODES	
A	Max. detection and overflow/overflow protection
B	Min. detection or dry run protection
OPERATION SPECIFICATIONS	
Repeatability	0.004 in (0.1mm)
Hysteresis	approx. 0.08 in (2mm) with vertical installation
Switching Delay	approx. 500 ms (On/off)
Frequency	approx. 1200 Hz
AMBIENT CONDITIONS	
Ambient Temp. on the Housing	-40 to +158° (-40 to 70°C)
Storage and Transport Temperature	-40 to 176°F (-40 to 80°C)
PROCESS CONDITIONS	
Process Pressure	-14.5 to 928 PSIG (-1 to 64 bar/-100 to 6400 kPa) depending on process fitting
Process Temp	-58 to + 302°F (-50 to +150°C)
VOLTAGE SUPPLY	
Operating Voltage	20 to 253 V AC, 50/60 Hz, 20 to 72 V DC (at U > 60 V DC, the ambient temperature can be max. 50 oC/122 oF)
Power Consumption	1 to 8 VA (AC), approximately 1.5W (DC)
Enclosure Rating	IP66/IP67
Certification	FM CSA (XP) CL I, II, III, DIV1, GP EFG

Note: Specifications subject to change

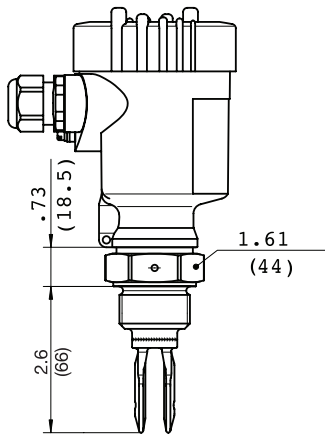
FEATURES & BENEFITS

- Setup without adjustment
- Product-independent switching point
- Very high reproducibility
- Wear and maintenance free
- SIL qualified

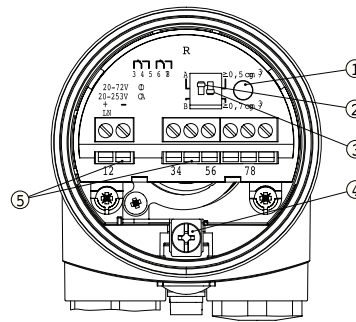
TECHNOLOGY

The Vibex Plus uses a piezo drive to energize the tuning fork. The tuning fork vibrates at its resonance frequency (1250 Hz) when it is not in contact with the medium. When covered, the frequency of the fork decreases. This frequency change is processed by the integrated electronics and converted into a switching command. Artificial intelligence allows the tuning fork to learn a new resonance frequency when a coated surface attenuates the sensors. Additionally, this level switch is insensitive to mist, foam, fog, pressure, or vacuum and therefore gives accurate level detection even in harsh conditions. The Vibex is a universal level switch solution for any liquid.

DIMENSIONS IN (MM)



CONNECTION DIAGRAM



- 1) Control Lamp
- 2) DIL switch for mode adjustment
- 3) DIL switch for switching point adaptation
- 4) Ground terminal
- 5) Connection terminals

Ordering Information

FLO-CORP MODEL NUMBER BUILDER

For Assistance Call (877) 356-5463

Use the diagram below, working from left to right to construct your FLO-CORP Model Number. Simply match the category number to the corresponding box number.

Example: LSVP-01

Vibex™ Plus Vibrating Level Switch for Liquids, 3/4" Connection Size, NPT Thread Type

