



OPERATING INSTRUCTIONS

VIBEX™ LSV1 VIBRATING LEVEL SWITCH



Introduction

Please read carefully! No liability can be accepted for damage caused by improper use or installation of the Vibex™ Vibrating Level Switch for liquids.

This universal vibrating level switch is an ideal instrument for accurate point level detection in liquids. Using vibrating fork technology, this device will detect the change in its natural resonant frequency (1.100 Hz) which is driven by an internal piezoceramic element inside the sensor. The frequency will change when the sensor is covered to a known point on the vibrating fork upon which the sensor will send a switching output. If the vibrating fork is not covered by liquid, its natural resonant frequency changes back and so does the state of the switching output. Typical applications include washing, filling, cooling and lubricating systems, sump level and bulk holding tank level control.



Safety Precautions

If you are unsure of the suitability of the Vibex™ Vibrating Level Switch for installation, please consult your FLO-CORP representative for further information.

Flammable or Explosive Applications

FLO-CORP manufactures several different display models with different mounting and internal configurations. It is the user's responsibility to select a controller model that is appropriate for the application, install it properly, perform tests on the installed system, and maintain all components.

Disclaimer

The information contained in this document is subject to change without notice. FLO-CORP makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for a particular purpose.

Incorrect Wiring

FLO-CORP assumes no responsibility for users incorrectly wiring their Vibex™ Vibrating Level Switch. Please refer to the wiring diagrams for correct wiring of the Vibex™ Vibrating Level Switch.

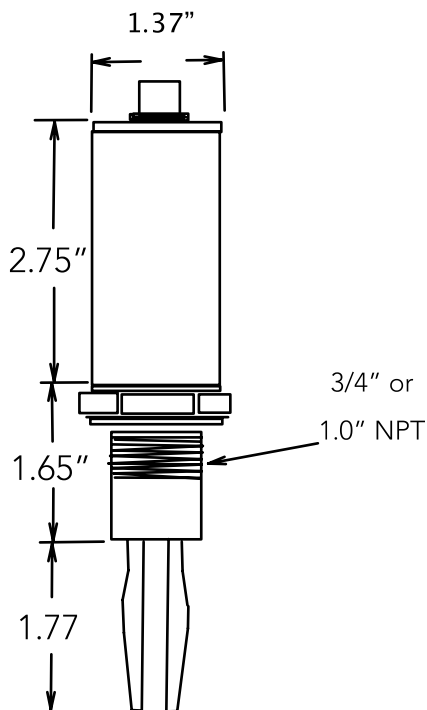
DESCRIPTION

This universal vibrating level switch is an ideal instrument for accurate point level detection in liquids. Using vibrating fork technology, this device will detect the change in its natural resonant frequency (1.100 Hz) which is driven by an internal piezoceramic element inside the sensor. The frequency will change when the sensor is covered to a known point on the vibrating fork upon which the sensor will send a switching output. If the vibrating fork is not covered by liquid, its natural resonant frequency changes back and so does the state of the switching output. Typical applications include washing, filling, cooling and lubricating systems, sump level and bulk holding tank level control.

FEATURES & BENEFITS

- Simple, compact design
- Extremely reliable
- Setup without adjustment or calibration
- Independent of liquid properties and installation conditions
- No moving parts, thus wear and maintenance free
- 5 year warranty

DIMENSIONS



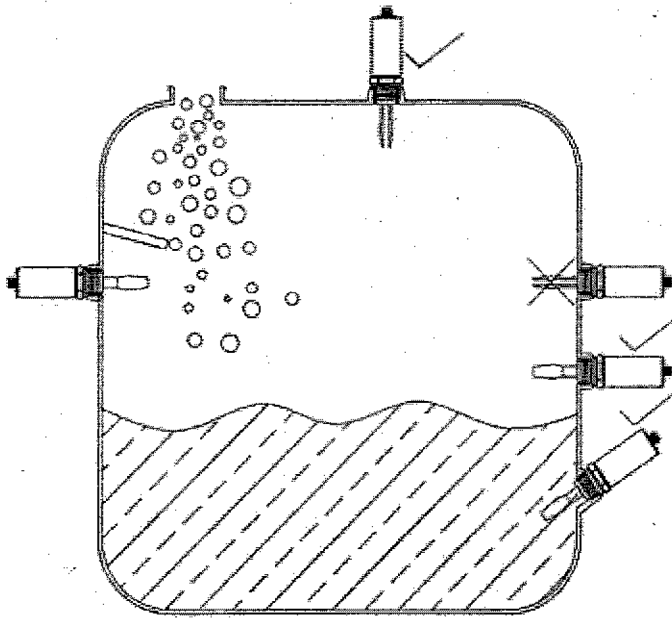
SPECIFICATIONS

LSV1 LEVEL SWITCH	
POWER SUPPLY	24 VDC
POWER CONSUMPTION	.025W
OUTPUT	24VDC/4A
MEDIUM TEMPERATURE	-20° to 176°F
ENVIRONMENT TEMPERATURE	-20° to 140°F
ABMIENT HUMIDITY	≤ 95%RH
MEDIUM	LIQUID
MEDIUM DENSITY	≥0.7g/cm3
LIQUID VISCOSITY	<1000mm2/S
PRESSURE RANGE	≤1MPA
MATERIAL	SUS304
PROTECTION GRADE	IP65
CONNECTION TYPE	3/4" NPT or 1/2" NPT
Specifications are subject to change without notice.	

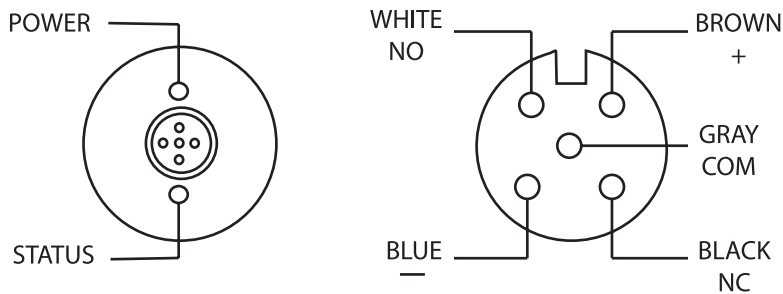
INSTALLATION

- 1) When installing, avoid the material impact and false alarm.
- 2) The junction box entrance must be down. The fixing nut of the power line inlet must be locked.
- 3) TOP MOUNTED INSTALLATION: The probe is vertically down and can be mounted at the top (away from the feed port) anywhere.
- 4) HORIZONTAL INSTALLATION: The probe must be facing downward 15-20 degrees to reduce material affecting the tuning forks.

INSTALLATION DIAGRAM



TERMINAL



Ordering Information

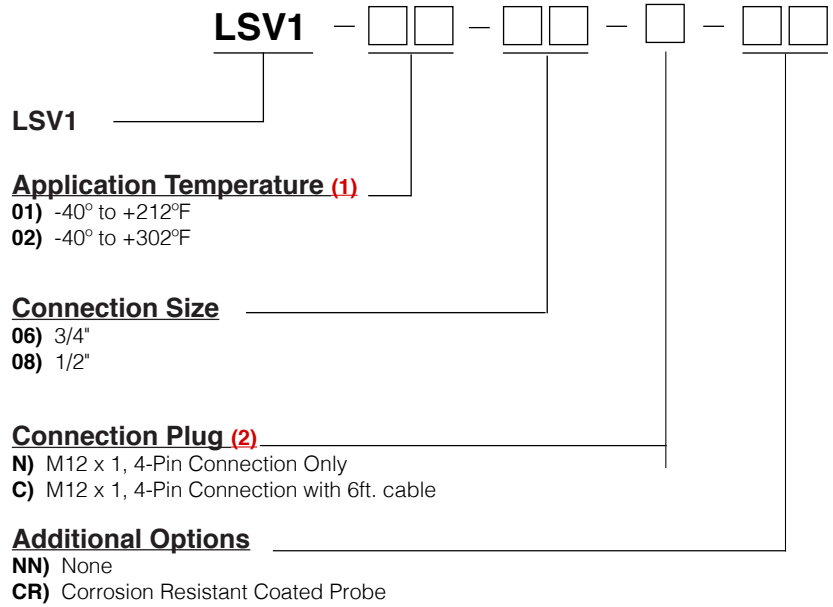
FLO-CORP MODEL NUMBER BUILDER

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: LSV1-01-06-N-CR

Vibex™ Vibrating Level Switch, -40° to +212°F Application Temperature, 3/4" Connection, M12 x 1, 4-Pin Connection Only with a Corrosion Resistant Probe



Ordering Notes:
(1) Select the best configuration based on your requirements
(2) Standard M12 cable is required for operation. For special lengths, please contact factory.

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