DAEHAN SENSOR

Vibration Type Level Sensor with level switch

DVS – Series

Level Switch with Contact – Output

Product Name

DVS – 100



INNOBIZ

ISO 9001 인증업체

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Media : Solid, Liquid

Wiring : Input – 2 wire
Output – Max. 3 wire
(SPDT x 1ea)

Input Voltage : DC 24V
(Option – AC 220V)

Output Signal : N/O 1ea, N/C 1ea

Contact Rat. : AC 250V / 3A

Sensitivity : specific gravity 0.1 over

Delay : Max. 10 sec (Variable)

frequency : 850Hz

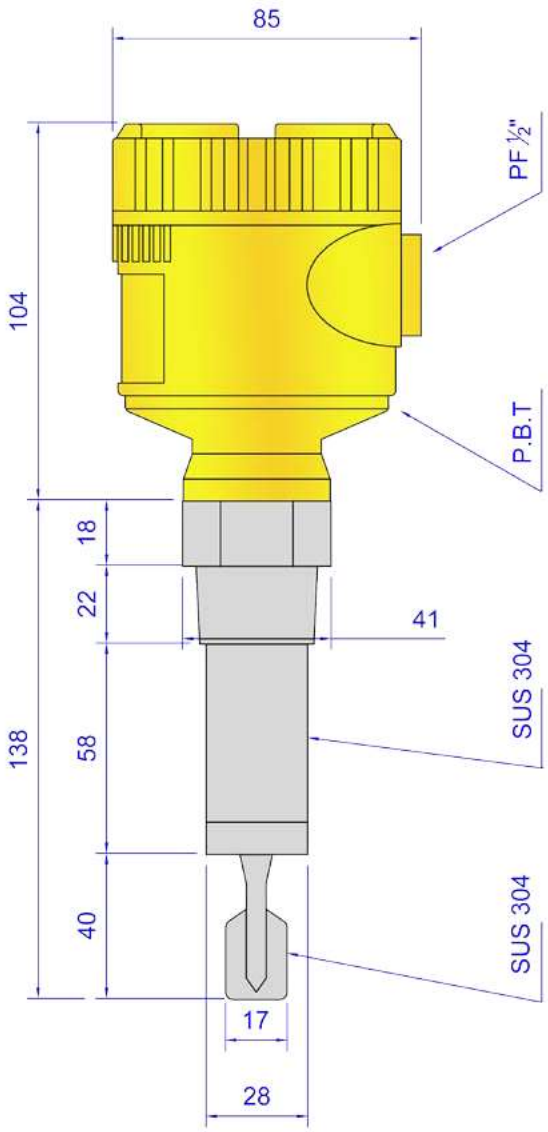
Temperature : −20℃ ~ 60℃ (Circuit)
−20℃ ~ 80℃ (Probe)

Pressure : A.T.M

Waterproff / Dustproof : IP65

Material : Head Housing – P.B.T

Probe – SUS304
(Option – SUS316)



Introduction

The vibration type level sensor is using a system that amplifies resonalnce frequency so to detect. Comparing the signals between oscillator and detection sensor, it maintains PLL Lock status when it is in normal opration.

When something touches sensor's detecting part to get obstructed, the phase difference rises between two signals, it gets In Lock status so that it sends output by delyaing the signal.

Features

With a unique frequency, a piezoelectric element is working with vibratioin. If any media touches the surface, it reduces vibration so to send relay contact output.

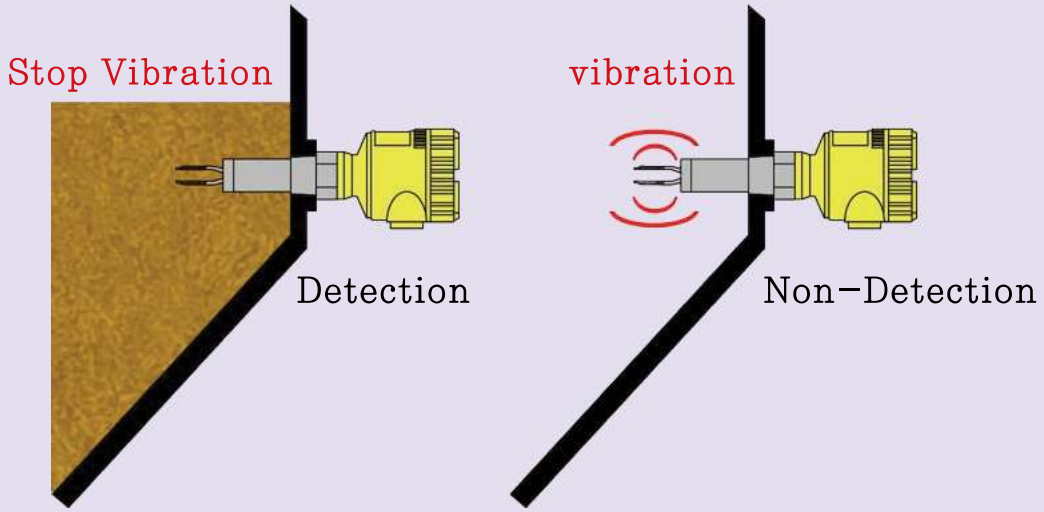
It is outstanding level sensor with high safety to measure the level of mostly liquid, fluid, diesel oil, powder, cement, resins and cereals.

Installation

Install to the tank and use it as shown in the picture. Check if a flange or a socket is suitable for the product speicification.

If it impacts on the sensor fork during installation, it is high possible that the internal vibrating device can be damaged. Be cautious of this.

After connecting the internal power insdie head to the wiring terminal, the check operation. Referring to rating plate, check the product specifications.



Using in the strong adhesive liquid will cause a malfunction of the sensor.
If if impacts on the detecting part, it will cause a malfunction of the sensor.

Calibration

DVS-Series sensor is custom-made sensor.

It is determined that contact output location and direction when it is manufactured.

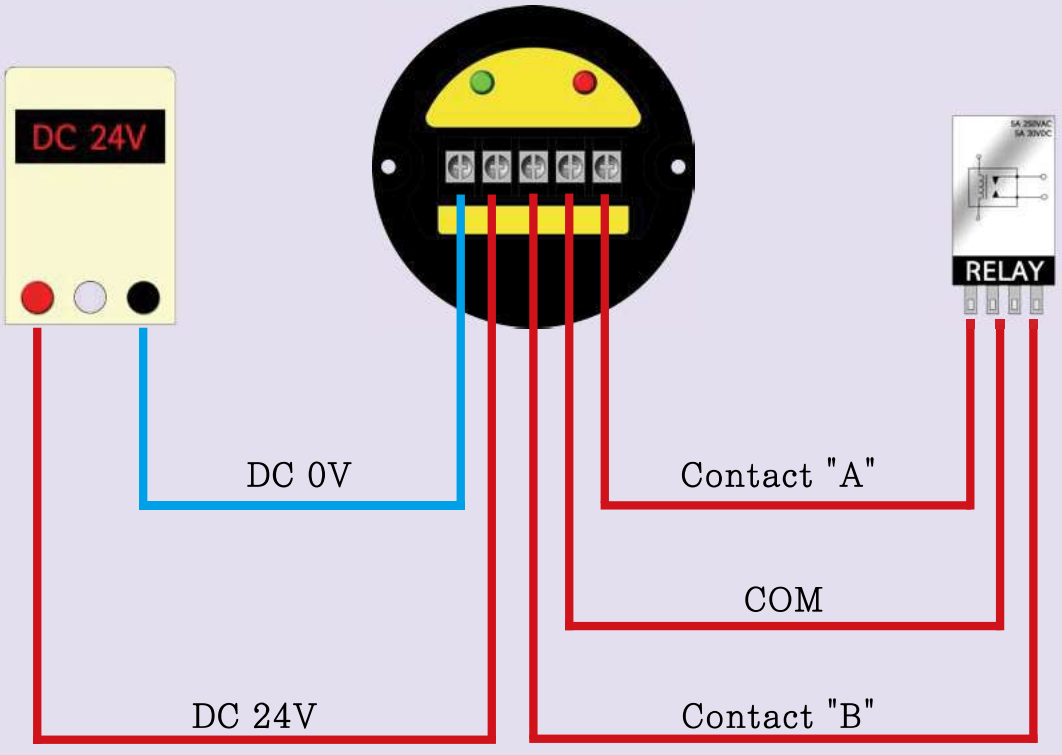
If you need to change, please contact us.

There is no way for you to alter setting.

Wiring Connection

Wiring to a Sequential Control

Red Lamp : Operation
Green Lamp : Power



Check & A/S

The input voltage is normal?
: Check if the input of AC 220V/110V, is normally supplying.

The wiring is correct?
: Check the connect the wire short-circuit and / or poor contact.

The state of sensor is normal?
: Check if water or liquid exists inside of the sensor.

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