

MODEL VL12

NEW VIBRATION TECHNOLOGY



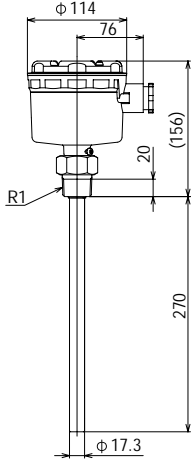
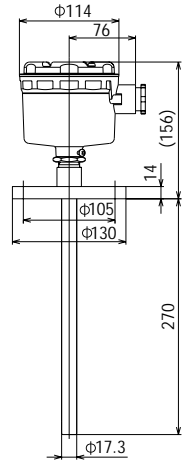
Feature

- New principle of operation and probe construction (Patent pending)
- Withstand up to 150°C at standard type
- Fail safe switch is provided

Operational Description (Patent Pending Principle and Construction)

The vibration rod of VL12 is vibrated by using the electro magnet and the permanent magnet which are faced at the right angles. When the electro magnet is energized, the electro magnet and the permanent magnet are attracted and repulsed. This movement makes vibration. When the vibration rod is covered with solids or powdered material, the current feeding to the electro magnet is increased by damping of the back electromotive current. This change is detected and converted to output signal.

Specifications

Model		VL12N	VL12F
Description		New Vibration Sensor	
Drawing			
Mounting	Standard	R1	JIS5K50A
	Option	from 3/4	from 25A
Supply Power		100 to 120V AC/200 to 240V AC 50/60Hz	
Power Consumption		Approx. 5VA Max.	
Relay Output		1 SPDT, 250V 3A AC, 30V 3A DC (Resistive) C-NO: Normally Open contact C-NC: Normally Closed contact	
Detection Time Delay		Approx. 3 to 5 seconds for covered Approx. 3 to 5 seconds for free	
Operating Temperature	Housing	-20°C to 60°C	
	Vibration rod	-20°C to 150°C	
Maximum Pressure		2MPa / 20bar	
Maximum Humidity		95% RH	
Sensitivity		Bulk density of 0.2g/cm ³ Min.	
Vibration Frequency		Approx. 300 to 500Hz	
Material	Housing	ADC12	
	Vibration rod*	304SS	
Cable Entry		JIS F 20a (G3/4)	
Protection		IP65	
Fail safe		High or Low by switch	
Indication		Green LED for Power status Red LED for Relay status	

*Other materials are available.