

MODEL VH10, 20 VIBRATION LEVEL SENSOR



Features

- For very low bulk density 0.02g/cm³ to 0.20g/cm³
- Uses solid state piezoelectric vibration principle for detecting material level
- Provides relay output when material contacts probe and dampens vibration

General description

The VH series are designed for using very low density powder or material such as fibers, perlite, diatomaceous earth, toner, carbon black, white carbon, expanded polystyrene, etc. VH10 is a compact version used for high and low level detection. VH20 is suitable for high alarm in large silos. Pipe Extension up to 2500mm for N model and 4000mm for F model are available.

Ordering Information

VH10	Standard
VH20	Pipe Extension
NH	Plug mounting
FH	Flange mounting
0	Flat-face flange
1	Raised-face flange
4	Plug mounting
J	JIS flange
A	ANSI flange
D	DIN flange
G	G plug
R	R plug
T	NPT plug
S	304 stainless steel
S6	316 stainless steel
A	90-132/180-264V AC, 50/60Hz
G	JIS F 20a (G3/4)
T	NPT3/4 socket

VH10 NH 4 R S A G = VH10NH-4RSAG

* The mounting size should be specified when you order.

* The length of probe should be specified in mm if required.

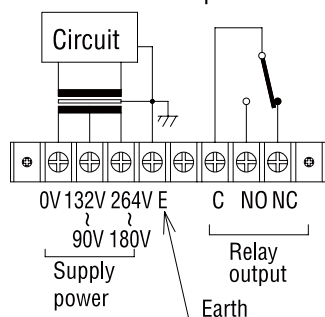
Specifications

Model		VH10NH	VH10FH	VH20NH	VH20FH
Description		Standard			Pipe Extension
Drawing					
Mounting	Standard	R1	JIS5K50A	R1-1/4	JIS5K50A
	Option	from 1	from 25A	from 1	from 25A
Supply Power		90 to 132V AC/180 to 264V AC 50/60Hz			
Power Consumption		Approx. 5VA Max.			
Relay Output		1 SPDT, 240V 3A AC, 30V 3A DC (Resistive) C-NO: Normally Open contact C-NC: Normally Closed contact			
Detection Time Delay		Approx. 1 second for covered Approx. 5 seconds for free			
Operating Temperature	Housing	0°C to 60°C			
	Vibration rod	-20°C to 80°C			
Maximum Pressure		1MPa / 10bar			
Maximum Humidity		95% RH			
Sensitivity		Bulk density of 0.02g/cm ³ Min.			
Vibration Frequency		Approx. 550Hz			
Material	Housing	ADC12			
	Vibration rod	304SS*			
	Extension	304SS*			
Cable Entry		JIS F 20a (G3/4)			
Protection		IP65			
Indication		Green LED for Power status Red LED for Relay status			

*Other materials are available.

Wiring

Connections and Specification



Contact capacity
240V 3A AC (Resistive load)
30V 3A DC (Resistive load)

Supply power
90~132 V AC 50/60Hz
180~264 V AC 50/60Hz

Power consumption
5VA