VIBRATION LEVEL SWITCH

FORK TYPE

For grain

FEATURES

- Measurement is stable and unaffected by temperature, pressure, specific gravity, induction rate, or conductivity.
- Material with excellent corrosion resistance and strength: SUS316Ti used (RRH-300 series).
- Highly visible operation easy to confirm even from outside: LED display installed.
- Fail-safe functions are standard.
- AC/DC-free power supply.
- Simple setting by dip switch alone.
- Ideal for controlling fine grains with apparent specific gravity of 0.01 or more.
- Ideal for compact hoppers and tanks.
- Switches have no mechanical moving or shielded parts, providing excellent pressure resistance and durability.
- CE-authorized product (CE marking).

PRINCIPLE

Fork level switch vibration enables piezoelectric elements to vibrate by an electronic circuit converting movement to mechanical vibration. An internal electronic circuit determines current state and outputs it to a relay when the measured object contacts the vibrating fork detector, regulating vibration.

APPLICATIONS

Almost all types of grain (fine grains not measured by other methods, including carbon, perlite, diatomacious earth, toner, silica, and foam beads). Compact size makes this ideal for small hoppers or tanks.

Model		RFM-300 series	RRH-300 series
Probe material		SUS316 equivalent (DIN1.4404)	SUS316Ti (DIN1.4571)
Installation method		G1"	G1 1/2"
		Screw-in flange optional	
Housing material		Aluminum alloy powder-particle coating	
Temperature	Detector temperature range	-40℃ – +130℃	
	Peripheral temperature	-30℃ – +70℃	
Acceptable pressure		Maximum 2.5 MPa (130℃) 4 MPa (100℃)	
Probe length		125 – 3000mm	137 – 3000mm
Minimum detection sensitivity		Specific gravity ≥0.01	
Response time	When detecting	≤0.5 sec	
	When recovering	≤1 sec when setting to higher specific gravity (≥0.5), ≤2 sec when setting to lower specific gravity (<0.5)	
Operation display		2 colors LED (RED/GREEN)	
Operation mode change		Maximum and minimum alarms are changed using a dip switch	
Sensitivity change		High and low sensitivity are changed using a dip switch	
Output		SPDT relay	
Output rating		AC250V 8A	
Power supply cable inlet port		2 for ϕ6 – 12 mm cable × M20 (0.75 – 2.5 mm^2 wire sectional area)	
Supply voltage		AC20 – 255V DC20 – 60V	
Power consumption		AC1.2 – 17VA DC<3W	
Electrical protection		Class I	
Protection configuration		IP67 (NEMA6)	

※This product is to be sold only in Chinese, Korean, and Taiwanese markets.