

Point level detection for fine powder, powder and particle

Vibrating Level Switch

MVL Series



Industry highest class detection sen

Features

- Stable detection for various kinds of fine powder, powder and partciles.
- No bad influence from temp., humidity, pressure, dust and electric charcteristics.
- Easy adjustment and superior durability because of no drive part.







Usabilities



Two-color LED indication

Sensor status visible by two-color LED.

Power ON/OFF, Detect or No-detect status visible by Two-color LED variations.



Plus 2 Up-screw type terminal block

Up-screw type terminal block prevents drop and loss of screw, furthermore, can save time for wiring work because no need to remove screws.





Housing swiveling mechanism

Housing can swivel in the range of 310 deg so it's possible to set the position of cable entry after installation.



Free voltage

AC/DC22 - 264C. Applicable to various areas and countries.

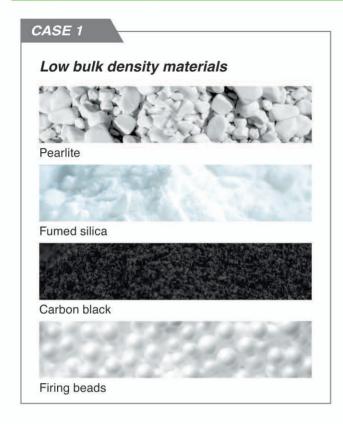
Switching mode selection

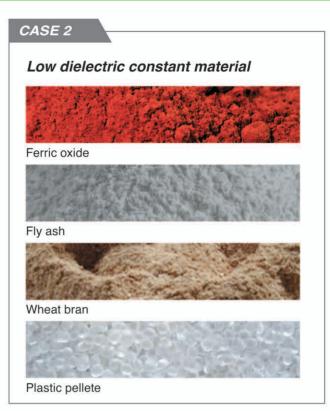
Mode selectable by switch (H/L) according to applicaions.

	H-mode		L-mode	
Measurement status	Operation LED	Switching status	Operation LED	Switching status
	GREEN	3 4 5	RED	3 4 5
	RED	3 4 5	GREEN	3 4 5
Failure of the supply voltage	CLEAR	3 4 5	CLEAR	3 4 5

sitivity! Detectable from 0.02g/cm³!

Application examples



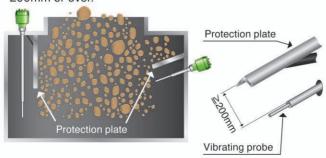


Precautions for installation

Protection for vibrating probe

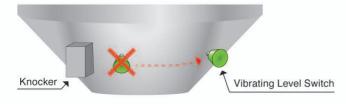
Make sure to take measure that charging material do not directly hit the probe.

* Distance between probe and protection plate should be 200mm or over.



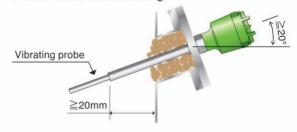
Installation for facility having vibration

Mount the Vibrating Level Switch away from the facility vibration source as much as possible.



Probe length and mounting angle

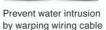
Tip of vibrating probe must be projected inside the tank at least 20mm or over. Mounting angle should be 20 deg or more when side mounting.



Counter-measure for water intrusion

Consider proper mounting to prevent water intrusion. Housing can swivel free in 310 deg.







Cable entry locates downward

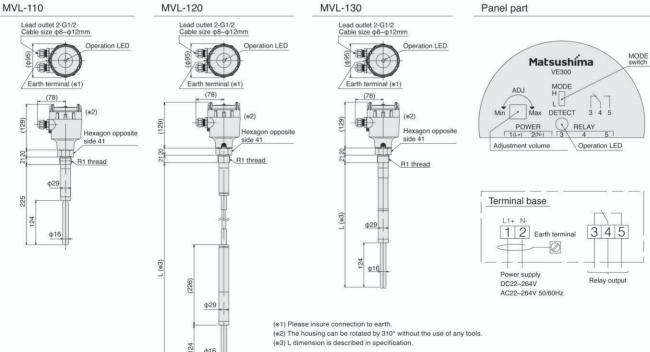


Standard Specification

Туре	MVL-110	MVL-120	MVL-130		
Product Type	Standard	Cable suspended	Extension pipe		
Power supply	AC/DC22~264V 50/60Hz				
Power consumption	4.7W (AC) 1.8W (DC)				
Material	Housing : ADC12 (Aluminum diecasting) Probe : SUS316L Extension pipe : SUS316L Cable : PE (only MVL-120)				
Length	Approx. 225mm	600mm~20000mm	350mm~2000mm		
Mounting	R1 thread (Flange mounting available as option)				
Lead outlet	2-G1/2				
Vibrating frequency	Approx. 310Hz				
Bulk density	≧0.02g/cm ³				
Detector strength(Tip load)	Max. 450N	=	Max. 450N		
Allowance tensile load	ų -	Max.3000N	-		
Allowance pressure	Max. 1.5MPa	Max. 1.0MPa	Max. 1.5MPa		
Signal output	SPDT×1 Contact capacity : AC250V / DC30V, 5A				
Operation LED	At undetected: Green light / At detecting: Red light				
Ambient temperature	-20°C~+60°C (No freezing)				
Detector temperature	-40°C~+150°C (No freezing)	-20°C~+85°C (No freezing)	-40°C~+150°C (No freezing)		
Protection	IP67 (with cover and lead outlet closed)				
Quantity	Approx. 1.8kg	Approx. 2.5kg (L=600mm) (0.15kg/m)	Approx. 2.0kg (L=350mm) (1.6kg/m)		

* Probe length extension possible in 100mm pitch

Dimension (mm)



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Caution
•Read the instructions to ensure correct and suitable application

of products.

Contact our nearest sales office when using our products for any systems used in situations which may be life threatening.

Distributor



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