

MODEL VL11, 21, 31



General Description

Model VL is designed for use in medium and/or large sized hopper. There are several versions available to meet a variety of hopper/silo operations. Model VL11, compact version, is used for high and low level detection. For low level detection in large silos, model VL11-G is available with a protected shield. Model VL21, pipe extension version, is suitable for high alarm in large silos. Pipe extension up to 2500mm for Plug mounting and 4000mm for Flange mounting are available. Model VL31, cable extension version, is also suitable for high alarm with a flexible PVC coated cable available in length up to 6000mm.

Technical Advantage

Patented principle and probe construction.

Ordering Information

VL	
11	Standard
21	Pipe Extension
31	Cable Extension
N	Plug mounting
F	Flange mounting
G	Flange with protective shield, available VL11G
(Null)	Standard: Max. 100C°
T	High temperature Max. 150C° for VL11 & VL21
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
D	24V (20 to 30V) DC
G	JIS F 20a (G3/4)
T	with NPT 3/4" socket
D	PG 13.5

VL	11	N		4	R	S	A	G	= VL11N-4RSAG
----	----	---	--	---	---	---	---	---	---------------

* The mounting size should be specified when you order.

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

Specifications

Model		VL11N	VL11F	VL21N	VL21F	VL31F
Description		Standard		Pipe Extension		Cable Extension
Drawing						
Drawings show N type.						
Mounting	Standard	R1	JIS5K50A	R1-1/4	JIS5K50A	JIS5K50A
	Option	from 3/4	from 25A	from 1-1/4	from 32A	from 50A
Supply Power		90 to 132V AC/180 to 264V AC 50/60Hz or 24V DC				
Power Consumption		Approx. 5VA or 3W 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	-20°C to 60°C				
	Vibration rod	-20°C to 100°C			-20°C to 70°C	
Maximum Pressure		2MPa / 20bar			100kPa / 1bar	
Maximum Humidity		95% RH				
Sensitivity		Bulk density of 0.2g/cm ³ Min.				
Vibration Frequency		Approx. 400Hz				
Material	Housing	ADC 12				
	Vibration rod	304SS*				
	Extension				304SS*	
Cable Entry		JIS F 20a (G3/4)				
Protection		IP65				
Fail safe		Optionally available (High or Low) by switch				
Indication		Green LED for Power status Red LED for Relay status				

*Other materials are available.

Wiring

