



New Relible Vibration Type Level Switch

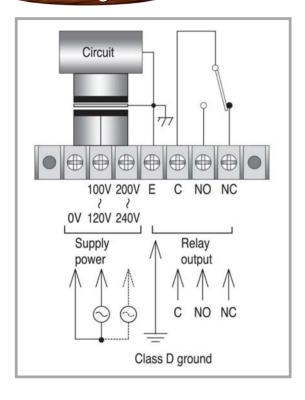


For Dry Bulk Material Level Sensing

Features

- New principle of operation and probe construction(Patent pending)
- Fail safe switch is provided
- Withstand up to 150° C(180° C in option)
- Less subject to build up and dead stock

Wring



Description

Model SVL is designed to detect powders, solids granular material including such very light powders as instant coffee, powdered milk, iron oxide, and toner for use in medium and/or large sized hopper. There are several versions available to meet a variety of hopper/silo operations. Model SVL15, standard type, is used for high and low level detection.

For low level detection in large silos, model SVL 15-G is available with a protected shield to protect from the lateral load on the probe. Model SVL 25, pipe extension type, is suitable for high or low alarm in large silos with top mounting.

Pipe extension up to 2500mm for Plug mounting and 4000mm for Flange mounting are available. Model SVL35, cable extension type, is also suitable for high or low alarm with a flexible PVC coated cable available in length up to 6000mm.

Fail-safe Function

	Fail-safe	LAMP		Relay	
	mode	DETECTION	Power	contact	
5	H.ON	-\\(\zeta\)-	-\document	C O NO	
	L.ON	•	-\\doc{\doc{\doc}{-}}	C O NO	
J	H.ON	•	-\\\\\-	C O NO	
	L.ON	-\\\\-\\\	-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	C-O-NO-NC	
19	OWER OFF	•	•	C -O NO NC	

Principle

The vibration rod of new SVL series is constructed by using the electro magnet and the permanent magnet. When the electro magnet is energized, the electro magnet and permanent magnet are attacted and repulsed. This movement makes vibration.

The construction of vibration probe is similar to the motor. When the motor is energized by the battery, the back electromotive current is generated by the influence of permanent magnet and coil. When the vibration rod is covered with solids or powdered material, the current flowing to the lead wire is increased by damping of the back electromotive current. The amplifier detects the shifting of current level, and converts to output signal.

Applications

Powder

Powdered coffee, Dry milk, Chocolate, Powdered coal, Level detection in pressure vessel, etc.

■ Dry Bulk

Sugar, Salt, Wheat, Grains, Glass material, Plastic pellet, Cement

Special Application

Sludge level detection in waste water

Overall Dimensions

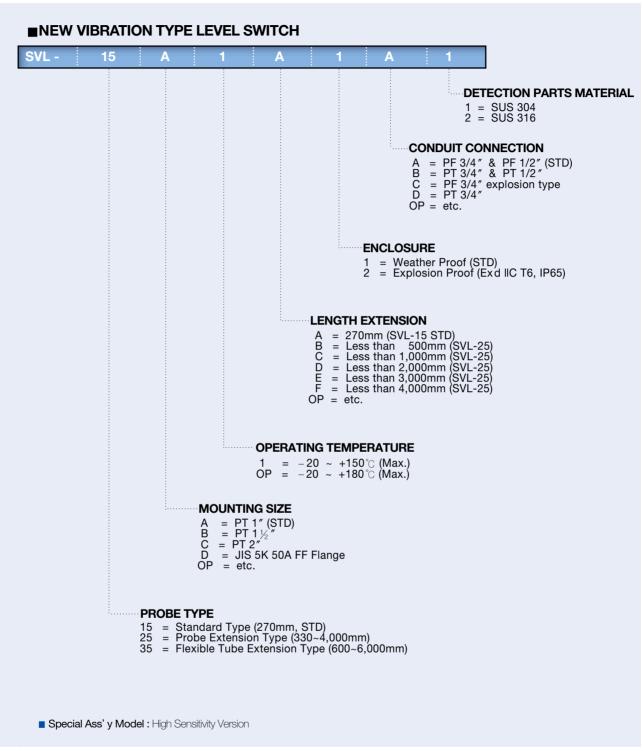
Model	Dimensions (mm)	Model	Dimensions (mm)
SVL - 15	Standard PT 1" 270 50 PF3/4*	Explosion Proof	Ex d II C T6, IP65
SVL -25	Extension pipe type MIN. 330 ~ MAX. 4000 (120) JIS SK 50A		Ex d II C T6, IP65
SVL -35	Flexible cable type (Nohken Product) JIS 5K 50A MIN. 600 ~ MAX. 6000	Explosion Proof	JIS SK SOA

Specifications

DESCRIPTION		SVL - 15 (Standard)	SVL - 25 (Extension)	SVL - 35 (Flexible)			
Supply Power		100 to 120/200 to 240V AC 50/60Hz or 24V DC option					
Power Consumption		Approx. 5VA or 3W 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	Housing	-20°C to 60°C (Get rid of dew)					
Temperature	Vibration rod	-20°C to 150°	-20°C to 70°C				
Maximum Pressure(kgf/cɪɪ²)		2	20				
Maximum Humi	dity	95% RH					
Sensitivity		Bulk density of 0.2g/ cm² Min.					
Vibration Frequency		Approx. 300 to 500Hz					
Material	Housing	ADC 12					
	Vibration rod	304SS or 316SS					
	Extension		304SS or 316SS with PVC				
Cable Entry		PF 3/4" & PF 1/2"					
Enclosure		Weather Proof, Explosion Proof (Exd IIC T6, IP65)					
Fail safe		High or Low by Switch					
Indication		Green LED for Power status					
		Red LED for Relay status					
Mounting	Nipple	PT1", 11/2",2"	PT 11/2", 2"	_			
	Flange	JIS 5K 50A Flange (Others are Option)					
Measuring	Side(mm)	270	330 ~ 1,000	_			
range	Top(mm)	270	330 ~4,000	600 ~ 6,000			

[■] The material of 316SS is optionally available.





■ When placing an order, selected ordering number should be indicated on the purchase order sheet.

Printed by KOART. 2010.04 98-CG-007. Rev: 6



317-18 Seongsu 2Ga, Seongdong-gu, Seoul, Korea Tel:(02)462-1512 Fax:(02)466-6445 http://www.seojin.biz