# VIBRATION TYPE LEVEL SWITCH Model KVX/XV2



Reliably detect any materials whose specific conductivity or electrical properties may be varied. Bacause the sensitivity is at the tip of the sensing plate, it may not be affected by fouling or build-up at the plate-root. With the development of new machanism and new circuitry, it has greatly been upgraded in terms of sensitivity and reliability.

## Applicable to powder whose detection is difficult due to the small apparent specific gravity, and yet it is user-friendly.



## Series

- Well suited to detection of such small-gravity powders that other instruments can not measure.
- Applicable to an object whose conductivity or specific gravity varies.
- Simple operation without complex sensitivity adjustment.
- Easy maintenance with few driving parts.
- Pressure resistant with no sealing part.
- Applicable to liquids.
- A remote box is prepared as a vibration countermeasure.
- An operating lamp is fixed.
- 2 types of L dimension = 180mm, 250mm



principle.

VIBRATION TYPE LEVEL SWITCH

#### Principle of Operation

When an object gets in touch with a rod oscillated by piezoelectricity, vibration damping takes place. This damping is transferred to a relay output.

Lightweight/Compact/Quality Level Switch!!

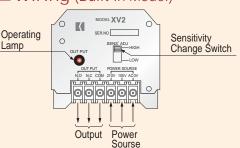


# XV2 Series

#### ■ Features

Besides the same performance as that of KVX series, it is compact and lightweight. It is the level switch developed to meet the downsizing requirements in particular.

### ■ Wiring (Built-in Model)



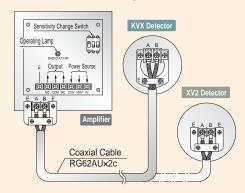
KVX Standard Model & Specification	O21  O22  O32  O42  O42  O42  O42  O42  O42	472 Cable conduit Housing Screw  428 Pipe 471 Detection rod	028 Pipe  October 1997  Detection rod	の114 Cable Continue Detection rod	O28 Pipe  O28 Pipe  Detection rod	Pipe  Detection rod		
Model	KVX-111	KVX-211	KVX-112	KVX-121	KVX-122	KVX-222		
Installation	R1	R1	R1	JIS10K50A	JIS10K50A	JIS10K50A		
Conduit	G 3/4	G 1/2 G 3/4 G 1/2						
Sensitivity	Specific Gravity over 0.1 ( over 0.03 as option)							
Sens. Adjustment	2 sensitivity Levels ( Switchable H & L *L level at factory setting)							
Contact Capacity	250VAC 10A (30VDC 10A)							
Power Source	105 / 210VAC ±10% ( 24VDC as option )							
Consumption	4VA							
Pressure (Probe)	1MPa							
Temperature (Probe)	-20°C to +80°C ( No condensation )							
Temperature (Amplifier)	−20°C to +60°C ( No condensation )							
Rod Material	304SS ( 316L SS as option)							
Housing Material	ADC							
Cable Length	_	4m (10m:option)*Inquiry	_	_	_	4m (10m:option)*Inquiry		
Enclosure Rating	IP-67	IP-67 equivalent		IP-67		IP-67 equivalent		
Angle Rod		Can be available (KVK-□□□-3)						
Sensitivity Volume		Can be available (Optional)						
Fouling Protection	Can be available (Optional)							
Detect sediments in water	Can be available (depending on condition)							
Weight	1.4Kg	1.0Kg	1.5Kg	3.6Kg	3.7Kg	3.2Kg		

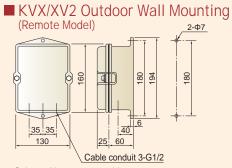
<sup>\*</sup>Note: Flange and Ferrule are not weldable.

XV2 Standard Model & Specification	Operating Lamp 90 Cable conduit Housing Housing Detection rod	Operating 90 Cable conduit Housing Detection rod	Operating 90 Cable conduit Housing Pipe Detection rod	Housing Screw  9 022 Screw Detection rod			
Model	XV2-111	XV2-191	XV2-121	XV2-211			
Installation	R 3/4	G 3/4B	JIS10K50A	R 3/4			
Conduit	G 1/2						
Sensitivity	Specific Gravity over 0.1 (over 0.03 as option)						
Sens. Adjustment	2 sensitivity Levels (Switchable H & L *L level at factory setting)						
Contact Capacity	2	250VAC 10A (DC30V10A)					
Power Source	105V/210	105V/210V AC ±10%					
Consumption	4VA						
Pressure (Probe)	1MPa						
Temperature (Probe)	-20°C to +80°C (No condensation)						
Temperature (Amplifier)	-	)					
Rod Material	304SS (316LSS as option)						
Housing Material		AC					
Cable Length	_	_	_	4m			
<b>Enclosure Rating</b>		IP55 equivalent					
Angle Rod	Can be available (XV2-□□□-3)						
Sensitivity Volume	Can be available (option)						
Fouling Protection	Not available						
Detect sediments in water	Not available						
Weight	1.0Kg 3.3Kg			0.8Kg			
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#### \*Note: Flange and Ferrule are not weldable.

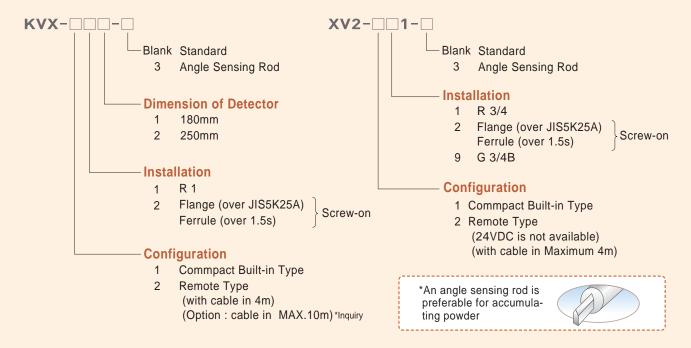
### ■ KVX/XV2 Wiring (Remote Model)





Color : Hammer-net gold Weight : 1.7kg

#### Type Designation



#### Notes for Installation

In case of horizontal mounting, make the cable conduit directly downward in both Flange and Screw mounting Types. An arrow on a hexagonal nut between the housing and the screw shows the mounting direction (KVX only). Make this arrow up on the hexagonal nut, while the conduit should face directly underneath. When screwing, so as to the correct direction, adjust the finishing angle with increasing or decreasing a thickness of sealant tape. When screwing, you should make the last angle adjustment within a 360 degree roll in rolling the seal tape up or down.

Apply an effective sealing material on the screw when you fix it. The detection rod must be completely protruded inside the tank.

Do not rotate the level switch with housing but with the hexagonal nut by spanner or wrench when you screw in the instrument.

#### Line of business

- Rotary Paddle Type Level Switch
- Vibration Type Level Switch
- Swing Type Level Switch
- · Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor • Capacitance Type Level Indicator
- · Diaphragm Type Level Switch
- Leak Type Level Switch
- · Microwave Switch
- Sounding Bob Type Level Indicator Ultrasonic Flow meter

- Conductance Type Level Switch
- Float Switch
- Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- Zirconia Oxygen Analyzer
- · Laser Type Level Indicator RADAR Type Level Indicator
- On-line Sensors for Accurate Liquid Analysis
- Flow Switch

\*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument

\*The specifications herein may be subject to change without advance notice.

All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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