VIBRATION TYPE LEVEL SWITCH Model KVX/XV2

Highly sensitive & compact vibration level switch meeting demanding processes as well as hard requirements.

Detecting hypobaric powder;

Standard type can detect an object of apparent specific gravity from 0.1 or over while optional type can do one from 0.03 or over.

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.

CAT. No. V-058-0907E

KANSAI Automation Co., Ltd.

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

KVX-121

(Ferrule Type)





Features

- 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.
- Highly sensitive to detect fine and light powders. (Specific gravity : more than 0.1) (Specific gravity : 0.03, available as option)

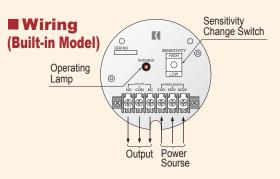
• Applicable to liquids.

• A remote box is prepared as a vibration countermeasure.

KVX-222

- An operating lamp is fixed.
- 2 types of L dimension = 180mm, 250mm

KVX-211



Our welding technology makes it possible to ensure the stable vibration based on the vibrational principle.

KVX/XV2 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!!

XV2-191



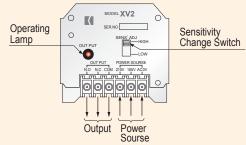
XV2-121



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. xy2-211

Wiring (Built-in Model)

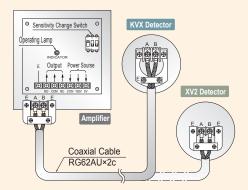


KVX Standard Model & Specification	02 02 02 02 02 02 02 02 02 02	4772 Cable conduit Housing Housing 08 428 Pipe 08 09 01 01 01 01 01 01 01 01 01 01	0114 Conduit Conduit Housing 028 028 097 Detection rod	02 114 Cable RUEL Housing 02 1 028 Pipe 028 Pipe 028 Pipe Detection rod	020 020 020 020 020 020 020 020	4072 Cable conduit Housing 028 Pipe 80 028 Pipe 90 028 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)	980kPa						
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-66	IP-55 equivalent		IP-66		IP-55 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	

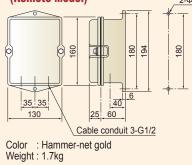
*Note: Flange and Ferrule are not weldable.

XV2 Standard Model & Specification	Operating Lamp Q Cable conduit Housing Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Operating Lamp Cable Conduit Housing Locknut Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q Q	Operating Lamp Cable conduit Housing Cable conduit Housing Pipe Cable conduit Housing Pipe Pipe Detection rod	01 022 01 022 01 022 01 022 01 022 01 022 022			
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		250VAC 10A (DC30V10A)					
Power Source	105V/210	105V/210V AC ±10%					
Consumption	4VA						
Pressure (Probe)	980kPa						
Temperature (Probe)	-20°C to +80°C (No condensation)						
Temperature (Amplifier)	-20°C to +50°C (No condensation)						
Rod Material	304SS (316LSS as option)						
Housing Material		AC					
Cable Length				4m			
Enclosure Rating	IP-55 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	1.0	0.8Kg					
Note: Elange and Ferrule are not weldable							

KVX/XV2 Wiring (Remote Model)

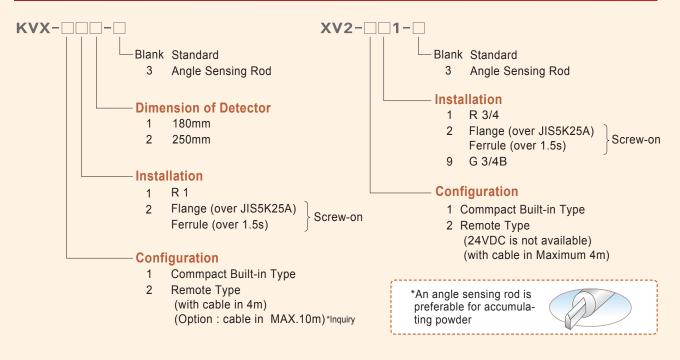


KVX/XV2 Outdoor Wall Mounting (Remote Model) _2-07



*Note: Flange and Ferrule are not weldable.

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.

Float Switch

· Float Type Level Indicator

· Zirconia Oxygen Analyzer

· Laser Type Level Indicator

Dust Monitor System

Liquid Analysis

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 · Tilt Switch
- Leak Type Level Switch
- Microwave Type Switch
- Sounding Bob Type Level Indicator
 Ultrasonic Flow meter
- Flow Switch

Nuclear Power Generation to Rice Milling All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

Conductance Type Level Switch KANSAI Automation Co., Ltd. Headquarters : 2-14, Togano-cho, Kita-ku, Osaka 530-0056, Japan G. Ultrasonic Type Level Indicator TEL. 81-6-6312-2071 FAX. 81-6-6314-0848 V Equipments For Conveyor Lines e-mail: infoe@kansai-automation.co.jp UKAS SGS http://www.kansai-automation.co.jp Tokyo Branch: 1-29-6, Hamamatsu-cho, Minato-ku. Tokyo 105-0013, Japan TEL. 81-3-5777-6931 FAX. 81-3-5777-6933 Nagoya Office: 3-31-27, Uchiyama, Chigusa-ku, Nagoya 464-0075, Japan TEL. 81-52-741-2432 FAX. 81-52-741-1588 RADAR Type Level Indicator On-line Sensors for Accurate Kyushu Office: 1-2-39, Asano, Kokura Kita-ku, Kitakyushu 802-0001, Japan TEL. 81-93-511-4741 FAX. 81-93-511-4580 Agent CIENCE GATE SCIGATE AUTOMATION (S) PTE LTD

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Instructions before using the instrument. *The specifications herein may be subject to change without advance notice.

*Please be sure to read USER'S GUIDE. Installation & Operation