Kansa Automat

MICROWAVE TYPE FLOW SENSOR **KFD SERIES**

Owing to 24GHz super-sensitive and reliable

Non-contact flow sensing technology

Even a grain detected!

KANSAI Automation Co., Ltd.

KFD-1 MICROWAVE TYPE FLOW SENSOR



FEATURES

Super-sensitive

Our unique circuit technology has been upgraded not to overlook even a grain.

Non-invasive

Our 24GHz technology has made it possible to sense through an intermediate barrier such as glass or synthetic resin.

Fouling

It may not be affected by smudges on the sensing surface or scale adhesion due to our 24GHz technology.

Versatility

It can detect flow in both small and large quantity if its sensitivity is adjusted.

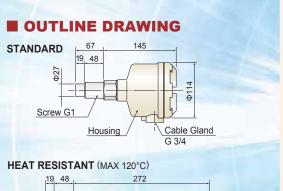
OPERATING PRINCIPLE

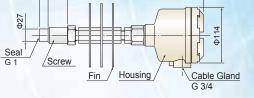
Model KFD-1 is a Non-contact Flow Sensor which emits the microwaves of 24GHz from the tip of its sensor. Reflected from the surface of powders and solids traveling in a pipeline, the microwaves get modulated in their frequency on the Doppler effect principle. The sensor, detecting the frequency difference between transmitted and reflected microwaves, transforms it and amplifies to output contact signals. It can reliably detect a little flow or motion of the powder or the grain in chutes or pneumatic conveying lines, which has so far been considered to be very difficult.

SPECIFICATIONS

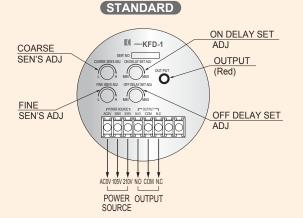
Model : KFD - 1 Power Sourse : 105/210VAC ±10% 50/60Hz Supply voltage : 5VA Sensing distance : Max.1.5m (depend on object) Wave modulation : NON Frequency : 24.2GHz Power output : 5.5mW Output contact : 1×SPDT 250VAC 5A Fault Alarm (Option) <a>Activated 6 seconds after detecting a weak oscillation or operation stop> ON delay : Variable 10 sec at the max. OFF delay : Variable 10 sec at the max. Acceptable temp : -10 ~+55°C Housing : IP-66 equivalent Color : Gold Weight : about 1.5kg

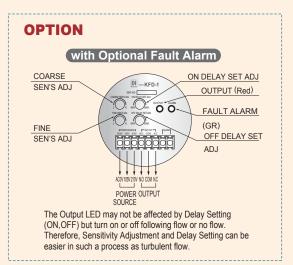
Allowable pressure : 490kPa











KFD-2 MICROWAVW TYPE FLOW METER

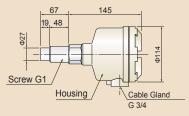


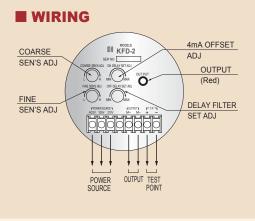
- •Flow Meter with continuous output (4-20mADC)
- •This can retrieve such a minute change in concentration that KFD-1 has not been able to do.

SPECIFICATIONS

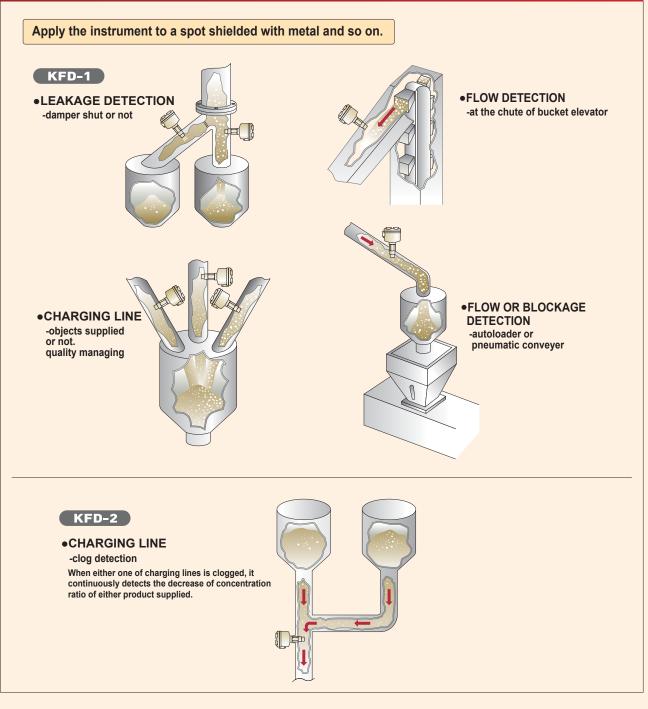
Model : KFD-2 Supply voltage : 105/210VAC±10% 50/60Hz Signal output : 4-20mADC Acceptable temp : -10 ~+55°C Color : Gold Allowable pressure : 490kPa Load resistance : less than 300Ω







APPLICATIONS



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 SwitchTilt Switch
- Leak Type Level Switch
- · Microwave 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

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Agent

*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.

Conductance Type Level Switch

Ultrasonic Type Level Indicator

• Equipments For Conveyor Lines

Float Type Level Indicator

Dust Monitor System

Liquid Analysis

Zirconia Oxygen Analyzer

Laser Type Level Indicator

RADAR Type Level Indicator
 On-line Sensors for Accurate

Float Switch