Kansai Automation

SENSOR TECHNOLOGY

PARTICLE FLOW SWITCH
Model KDS-1

MONITORING EXHAUSTED DUST AND THE DENSITY OF MINUTE PARTICLES AND DETECTING FLOW / NO FLOW !

CAT.No.DS-019-0712E

KANSAI Automation Co.,Ltd.

KDS-1 PARTICLE FLOW SWITCH

FEATURES

- Having no actuator, it can maintain the higher performance with the minimum maintenance.
- You can measure only by fixing an electrode to a duct of dust collector outlet or a pipe.
- Being all-in-one compact unit, it can easily be handled/ adjusted.
- In order to prevent it from being operated improperly for the instantaneous rise of dust density due to the bag cleaning cycle, you can make a delay-time alarm setting.
- It can not be affected by the change of flow rate.
- It is sensitive to make it possible to measure the lower density.

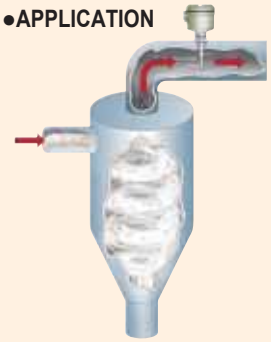
PRINCIPLE OF OPERATION / APPLICATION

It can detect the density of minute particles with an electrode fixed on duct or pipe. It is the sensor measuring the electric charge of minute particles. When the density reaches the preset values, it outputs the contact externally. It is widely applied to detect leakage or flow because it can be accommodated to the dynamic range from low to high density. By detecting any leakage from a bag filter or a cyclone separator, it can contribute to the environment conservation or to the prevention of materials/products from running off. By detecting flow/no flow in the air transport path, it can also work on quality management of a mixture and so on as well as contamination prevention

SPECIFICATIONS

Power Voltage	: 105/210VAC ±10% 50/60Hz
Output Contact	: SPDT 250VAC 5A
Actuation Display	: LED in Red
Alarm Delay Time Setting	: 0~60 secconds (On/Off delay)
Allowable Temperature	: Amplifier −20~55°C Electrode −20~80°C (High Temp option)
Sensor Length	: up to 1000mm
Sensor Material	: SUS304 (316SS as option)
Mounting Method **Dimensions**	: Screw (R1), Flange (Over JIS5K25A)

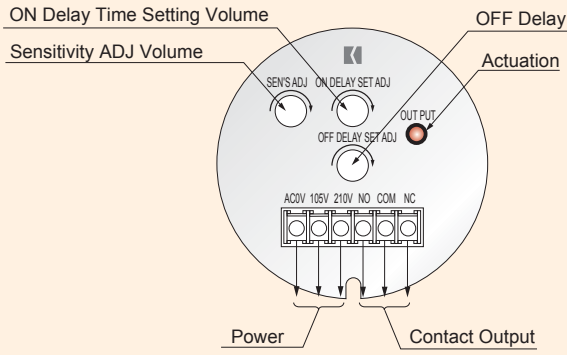
●APPLICATION

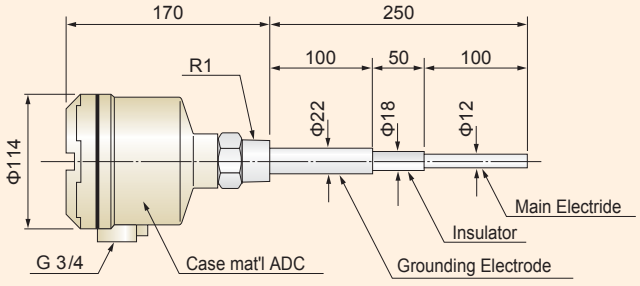


Detect the clog of cyclon
Detect failure of baghouse

Detect the of powder transport line

DIMENSIONAL OUTLINE-DRAWING





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 Switch
- Sounding Bob Type Level Indicator
- Flow Switch
- 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
- Ultrasonic Flow meter

*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.

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

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Design,development,and manufacture of level measuring sensors

Agent