

# SENOFEE

ITEM NO : YDS-series



## Vibration/acceleration sensor

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### General Description

YDS-series have the extra character of built-in precise circuit of integration and velocity output. Wider frequency response range, mechanical moving parts not easily damaged, light weight and good dynamic response than magnetolectric velocity transducers. this series of sensors are compatible with constant current adapters. Can be widely used in industrial applications.

### Applications



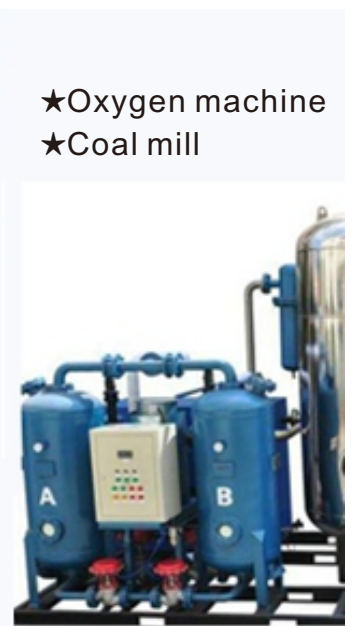
- ★Motor
- ★Water pump
- ★Steam turbine



- ★Enerator
- ★Compressor



- ★Fan
- ★Centrifuge



- ★Oxygen machine
- ★Coal mill

### Features

- .strong anti-jamming ability
- .wide frequency response
- .great dynamic characteristics
- .Stainless steel shell
- .Laser welding for sealing
- .Double-layer shielding(isolation)
- .Water-proof, dust-proof, oil resistance
- .Customized pressure range

### Performance

Static characteristics		
Measuring range	±10g	±50g
Sensitivity (±5%)	0.8mA/g	0.16mA/g
Amplitude frequency response (±10%)	10 ~ 1000Hz	0.5 ~ 8000 Hz
Resonant frequency	> 20k	> 25k
Maximum lateral sensitivity	<5%	
Amplitude non-linearity	1%FSO	
Electrical characteristics		
Operating Voltage	12~30V	
Bias	12mA	
Output range	4~20mA	
Grounded	the signal is insulated from the shell	
Output Impedance	≤150Ω	
Insulation resistance	>500MΩ (experimental voltage 500V)	
Environmental characteristics		
Operating temperature	-40~85°C	
Impact limit	±2000g	
Physical characteristics		
Sensitive components	Piezoelectric Ceramics	
Operating mode	Center compression	
Shell material	Stainless steel	
Installation method	1/4~28 stud or magnetic base	
Connector	5015 two-core connector (A input, power supply is positive B output, meter access terminal)	

### Measuring direction

	Measuring range	Cable specifications	D lead length	Installation thread	Explosion-proof requirements
A1: accelerometer	B1:±10g B2:±50g	C1. Direct lead C2. Direct lead (With armor) C3. Aviation plug C4. Aviation plug(With armor)	D1.1 meters D2.2 meters D3.3 meters	E1.M10*1.5 E2.M8*1.25 E3.M5*0.8 E4. Magnetic base E5. Special customization	F1. Explosion-proof  F2. Non-explosion proof

### Production installation notes:

(1) Installation: Use the bottom screw M5 install it at the measured point, if the machine is not convenient to open a 4-hole, you can choose Magnetic base installation. Can completely replace and compatible with imported PCB/IMI and other brand products

(2) Wiring: This product adopts loop power supply and two-wire output (two wires are both power and signal wires).It needs to be connected to the PLC or DCS signal input port.

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