

# HSA3N-RS485 Vibration and Acceleration Integrated Sensor



Nanjing Hangjia Electronic Technology Co., Ltd.

## Overview

HSA3N-RS485 vibration sensor and acceleration integrated sensor is a high-performance, low-power, anti-interference and composite vibration accelerometer. It used high-performance MEMS chip, using spectrum technology, FFT technology and vibration sensing technology to develop and produce a high performance, low power consumption, anti-interference and composite vibration sensor.

## Parameters

<b>Dynamic characteristics</b>	Units	HA3NS50-RS485
<b>Measuring Velocity range (peak value)</b>	mm/s	0-50
<b>Acceleration range</b>	g	16
<b>Output Signal</b>		RS485
<b>Frequency response(±1dB)</b>	Hz	10-5000 selected
<b>Vibration Accuracy</b>	%F.S	±2
<b>Temperature range</b>	°C	-40~85
<b>Temperature measurement accuracy</b>	°C	±2
<b>Supply voltage</b>	VDC	24
<b>Detection cycle</b>		real-time
<b>Sending conditions</b>		real-time
<b>Working Current</b>	mA	≤8mA
<b>power consumption</b>	mW	≤100mW
<b>Protection level</b>		IP67
<b>Overall dimension</b>	mm	∅30mm×70mm
<b>Shell material</b>		stainless steel
<b>Installment way</b>		Bolt or magnetic base

## Dimension: (mm)

Outer diameter:  $\phi$ 24mm,

Hexagon diameter: 27mm

Housing height: 650mm

Bolt or magnetic base height: 10mm

Total Height: 750mm



## Installation

(1) Unpack and check.

Take the sensor out of the packing case and check whether the sensor is in good appearance and whether the leads are intact.

(2) Read and modify the device (sensor) address.

The default address of all devices before delivery is 1. Use the serial assistant or dedicated configuration software to modify the device

Address. Device address: 1-240.

(3) Sensor installation.

Magnetic: The sensor is directly adsorbed at the vibration measurement position of the device.

Bolt: Tighten the  $\phi$  8×1.25mm×10mm bolt at the bottom of the sensor to the vibration measurement position of the device.

(4) Access the system.

Connect the power supply to the communication cable correctly. The line sequence is printed on the device housing. The housing shall prevail.

(5) Record the installation location and device address.

Record the area, device, and position where the sensor is to be installed, and the ID of the sensor. This information is convenient for software personnel to compile monitoring software and equipment management personnel to maintain and use later.