HA1N100 Industrial Vibration Accelerometer

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Overview

HA1N100 is a industrial vibration acceleration transducer with the output on the top. It can be used for vibration measurement for various rotary machines or reciprocating motion equipments. For example, it can proceed on-line monitoring, operation and maintenance, processing monitoring and protection of gear case and main shaft bearing of draught fan, fan, pump, steam turbine and compressor.

This product adopts stainless steel shell, laser welding for sealing, double-layer shielding(isolation) and water-proof, dust-proof, oil resistance design, very suitable for long-term and stable operation in various harsh environments in industrial field. It also has lots of good parameters such as built-in IEPE circuit, strong anti-jamming ability, float isolation and two cores low impedance voltage output.

Technical Parameters

dynamic characteristics	units	HA1N100
measuring range (peak value)	g	±50
Sensitivity(25℃)	mV/g	100
Frequency response(±10%)	Hz	1~6000
Frequency response(±3dB)	Hz	0.5~10000
Resonance frequency	Hz	20000
Transverse sensitivity rate	%	≤5
Electric property		
Driving voltage	VDC	18~28（constant-current source）
Driving current	mA	2-10
Bias voltage	VDC	+10~+12
Output impedance	Ω	＜100
Ground insulation installment	Ω	$\geq 10^8$
Environment characters		
Operation temperature	℃	-40~+120
limit of impact(peak value)	g	±2000
Physical characters		
Outline dimension		See drawing
weight	g	~70
Shell material		stainless steel
Output mode		MIL-C-5015
Installment way		M6
Sensitive element		Ceramic shear
accessory		
Erection bolt		M6 hex socket
Connection cable		D03~3 meters

Dimension:
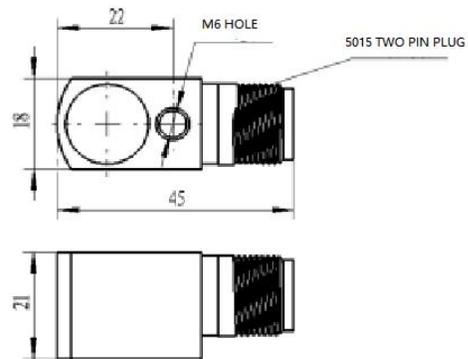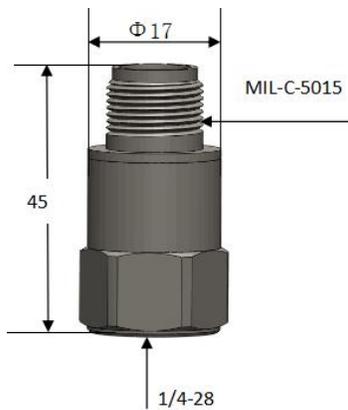
Ordering Guide

Output way:_ _
01:Side output
02: Top output

Output and connection cable: _ _
C：Socket output
Z: cable directly
01 ：connector with 1 meter cable
02 ：connector with 2 meters cable
03：connector with 3 meters cable
… (cable length can be customized)

Installation thread: _ _
01： 1/4-28 to M6
02： 1/4-28 to M8
03： 1/4-28 to M8×1
04： 1/4-28 to M10