General description

INNALABS' INN-202 navigation-grade accelerometers are used in both commercial and military applications such as strap-down inertial navigation systems for aircraft, marine, land and other applications. Excellent performance of these accelerometers is achieved owing to proven quartz flexure technology, and integrated Bias and Scale Factor temperature models. In addition to acceleration the **INN-202** accelerometers also measure speed, distance, and obliquity.

Implementation of the latest advances in technology and economy of scale enable us to set lower price compared to other analogue accelerometers. Another substantial advantage is the fact that INNALABS does not require export licenses, so the purchasing process is very fast and hassle-free. These factors make **INN-202** the №1 accelerometer on the navigation and control market today.

Features

- Navigation performance – 80µg Bias Repeatability
- High Input Range – up to 50g
- High stability under temperature changes
- Analog output
- Compact design
- **INNALABS does not require export licenses**

Applications

- Inertial Navigation Systems for helicopters, manned and unmanned (UAV) aircrafts
- Navigation / orientation / gyrocompassing systems for naval vessels, ships, submarines, ROV, AUV
- Guidance systems for strategic or tactical missiles
- Orientation systems for oil drilling industry

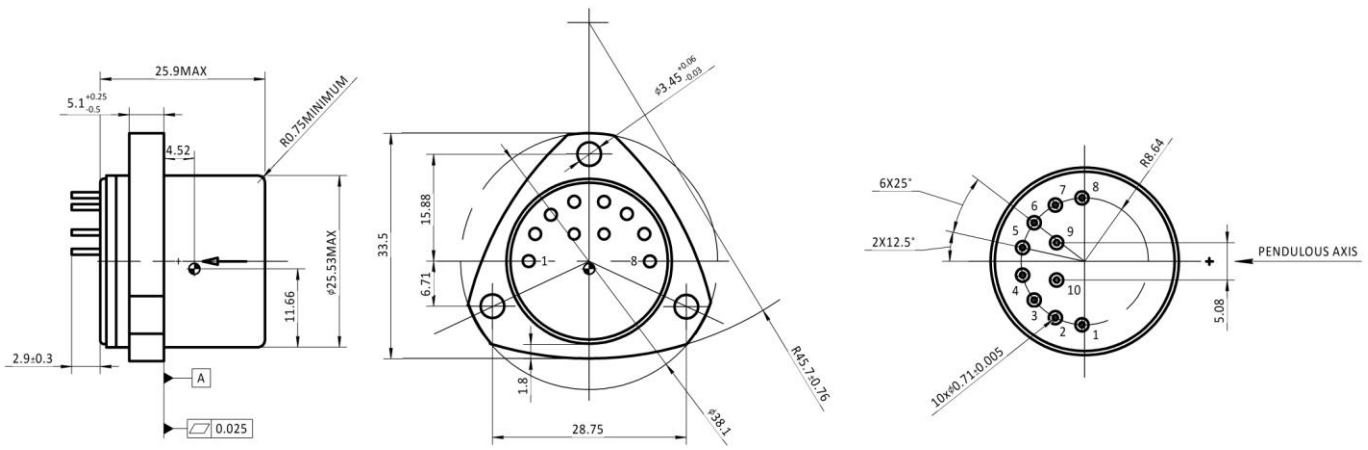
Technical Parameters

Parameters	Units	Values
Input Range	g	±50
Bias	mg	<3
One Year Repeatability	µg	<80
Temperature Sensitivity	µg/degC	<50
Scale Factor	mA/g	1.0 … 1.4
One Year Repeatability	ppm	<50
Temperature Sensitivity	ppm/degC	<50
Axis Misalignment	µrad	<2000
One Year Repeatability	µrad	<100
Non-linearity	$µg/g^2$	<50
Operating Temperature	degC	-55 … +85
Vibration	g, Hz	8g @ 20 … 2000 Hz
Shock	g	70, 11ms
Resolution	µg	1
Bandwidth	Hz	800
Current per Supply	mA	<16
Power @ ±15 VDC	mW	<480
Input Voltage	VDC	±12 … ±18
Bias temperature model		YES
SF temperature model		YES
Size	mm	Ø 38.1 x 26
Weight	g	<80
Case Material		Stainless Steel

Connector PIN description:

PIN	Signal	PIN	Signal
1	Signal out	6	Temperature sensor output
2	Current torque	7	Voltage self test
3	-12 to -18 VDC	8	Signal and power return
4	+12 to +18 VDC	9	- 9VDC
5	NC	10	+ 9VDC

Accelerometer dimensions drawing (mm):



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