

## General description

INNLABS' INN-205 quartz accelerometers were developed for commercial applications such as strap-down inertial navigation, orientation, and stabilization systems. Excellent performance of these accelerometers is achieved owing to proven quartz flexure technology. The INN-205 accelerometers can be supplied with integrated Bias and Scale Factor temperature models upon customer request. In addition to acceleration the INN-205 accelerometers also measure speed, distance, and obliquity.



Implementation of the latest advances in technology enables us to set lower price compared to other analogue accelerometers. Another substantial advantage is the fact that INNLABS purchasing process is simplified and hassle-free. These factors make INN-205 the №1 accelerometer on the middle-accuracy accelerometers market today.

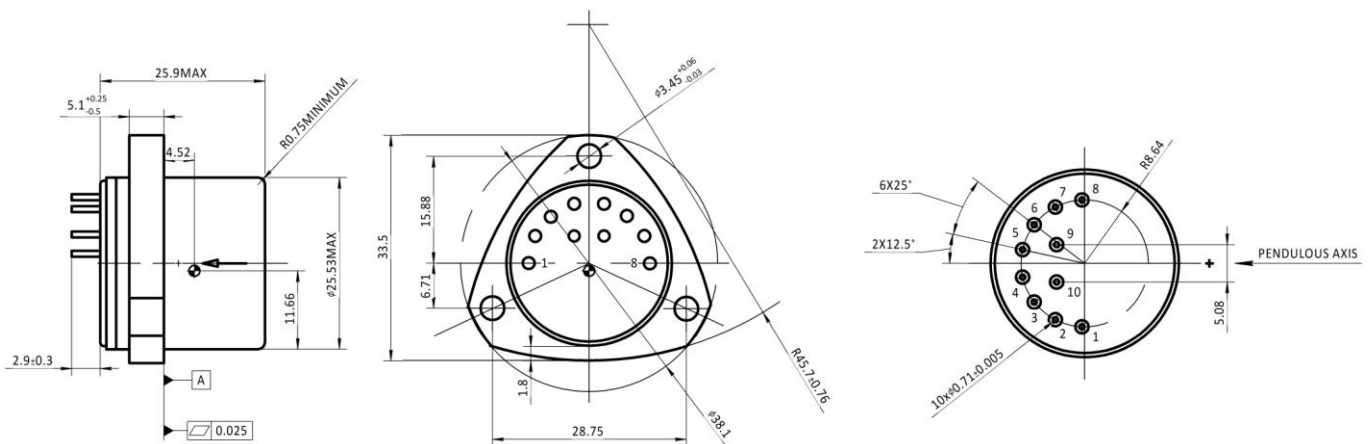
## Features

- Tactical performance **1500µg** Bias Repeatability
- Temperature stability
- Analog output
- Compact design

## Applications

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

## Accelerometer dimensions drawing (mm):



## Technical Parameters

Parameters	Units	Values
Input Range	g	±10
Bias	mg	<20
One Year Repeatability	µg	<1500
Temperature Sensitivity	µg/ degC	<200
Scale Factor	mA/g	1.0 ... 1.4
One Year Repeatability	ppm	<1500
Temperature Sensitivity	ppm/degC	<200
Axis Misalignment	µrad	<2000
One Year Repeatability	µrad	<100
Non-linearity	µg/g <sup>2</sup>	<100
Operating Temperature	degC	-50 ... +85
Vibration	g, Hz	8 g @ 20 ... 2000 Hz
Shock	g	70, 11ms
Resolution	µg	<5
Bandwidth	Hz	800
Current per Supply	mA	<16
Power @ ±15 VDC	mW	<480
Electrical Interface		Power/Signal/Ground/ Temp Sensor
Input Voltage	VDC	±12 ... ±18
Temperature sensor		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

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