

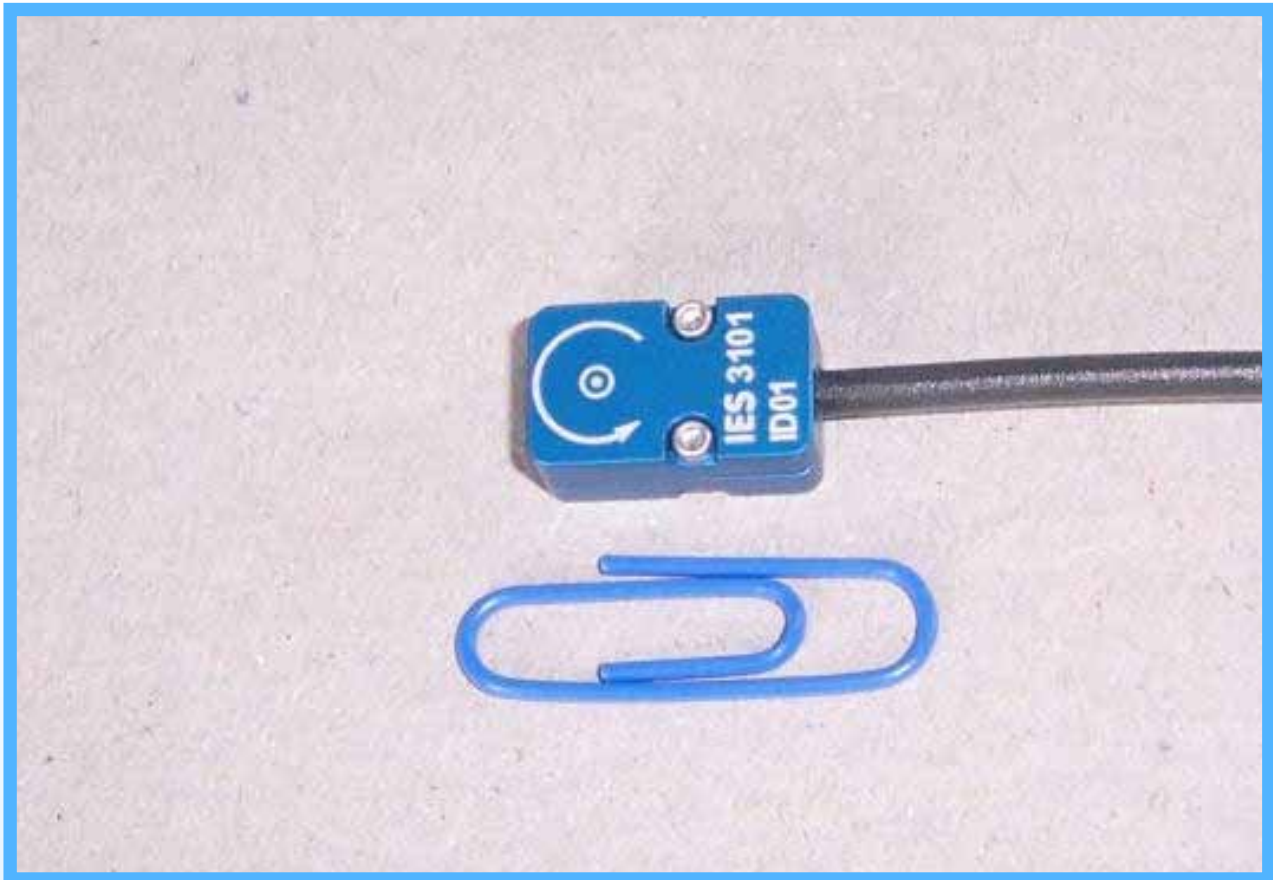
CRASH LAB SENSORS

IES 3101-XXX

1-AXIS GYRO SENSOR

One axis small and light-weight gyro sensor with measuring ranges of 150 °/s, 300 °/s, 600 °/s, 1200 °/s, 2400 °/s, 4800 °/s and 9600 °/s suitable for various measurements in the crash test industry.

- Dimensions: 17 x 10 x 7 mm³
- Mass: only 3 grams.
- Measuring ranges: from +/- 150 °/s to +/- 9600 °/s
- DC-Response.
- CFC 600 Frequency response.
- Compatible with common crash test DAU's.
- Shunt test supported.



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SPECIFICATIONS:

Metrics	
Dimensions	17 x 10.2 x 7 mm ³ (above 1200 °/s: 17 x 10.2 x 8.5 mm ³)
Weight	3 grams plus cable
Cable	6m long, black PUR, open wire ends
Mounting screws	use M 1.4
Drill plan, dimensions in mm. 2 mounting holes, distance 7.62 mm. (7264 pattern)	

Environment	
Temperature range	0 - 60 °C
Acceleration	2000 g shock survival in any direction

Electrical Interface		
Power supply	6 - 15 V, max. 15 mA	
Typical sensitivity	Sensitivity is independent of supply voltage and should not be evaluated from the shunt response (which is supply dependent).	
Zero output signal	max. +/- 200 mV	
Cable colours	+ Supply	red
	- Supply or GND	blue
	+ Signal output	white
	- Signal output	green
	Cable screen	Not connected to case

Measurement Performance	
Temperature drift of zero output signal	1 mV/K
Temperature drift of sensitivity	0.05%/K (for FS ≤ 2400 °/s)
Temperature drift of sensitivity	0.08%/K (for FS ≤ 2400 °/s)
Linear acceleration effect	0.2 °/s/g
Nonlinearity	0.3% FS

Range	Typ. Sensitivity	Typ. Noise
150 °/s	12 mV/°/s	0.12% rms FS
300 °/s	6 mV/°/s	0.12% rms FS
600 °/s	3 mV/°/s	0.12% rms FS
1200 °/s	1.5 mV/°/s	0.12% rms FS
2400 °/s	0.75 mV/°/s	0.15% rms FS
4800 °/s	0.375 mV/°/s	0.18% rms FS
9600 °/s	0.188 mV/°/s	0.2% rms FS

xxx denotes the +/- full scale measuring range: 150 °/s, 300 °/s, 600 °/s, 1200 °/s, 2400 °/s, 4800 °/s, 9600 °/s

Information is provided without warranty and is subject to change without notice. We reserve the right to make changes whenever necessary to improve to the product. Revision 2010-08