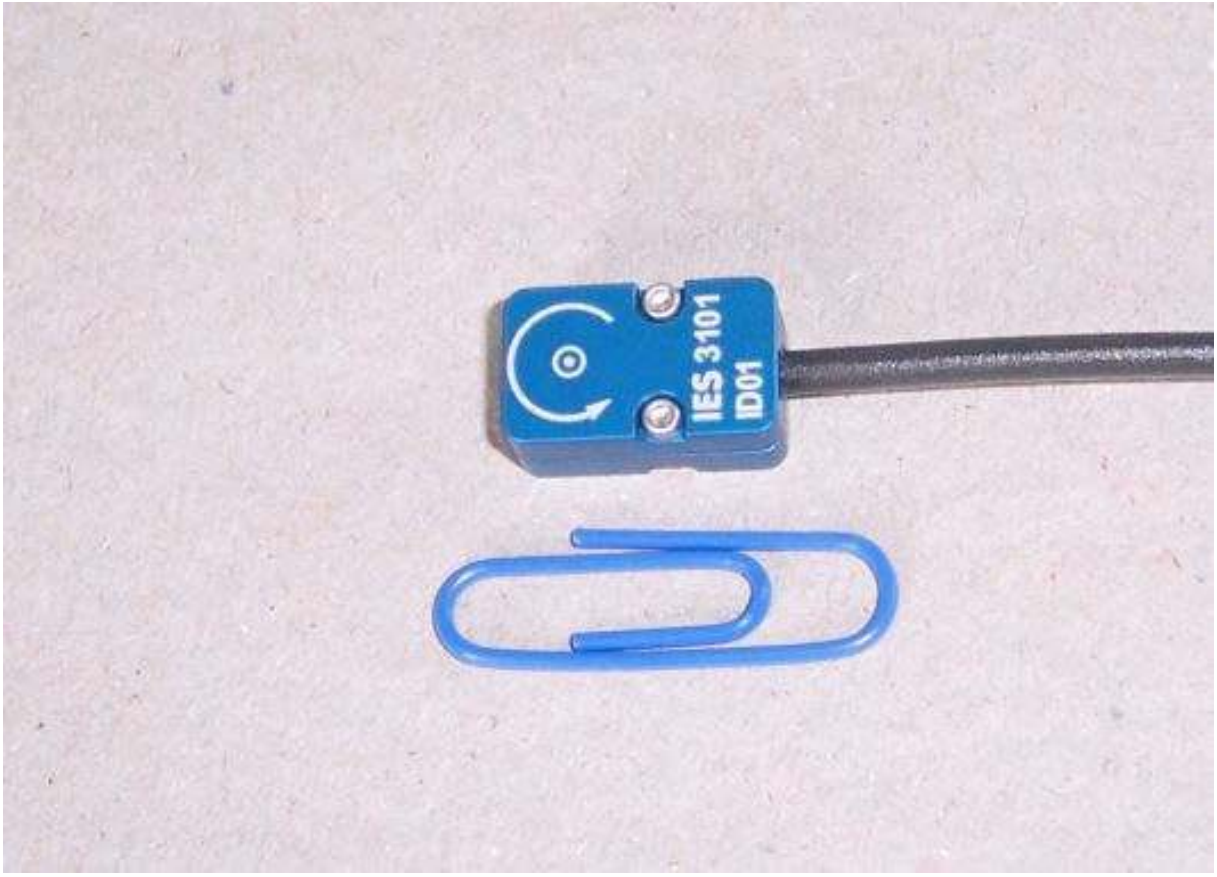
IES 3101-xxx
1-Axis Gyro Sensor

PRELIMINARY SHORTFORM DATA

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 mm³ (above 1200 °/s: 17 x 10.2 x 8.5 mm³)
Weight	3 grams plus cable
Cable	6 m long, black PUR, open wire ends
Mounting screws	use M1.4
Drill plan, dimensions in mm. 2 mounting holes, distance 7,62 mm (7264 pattern)	

Environment	
Temperature range	10 …60 °C
Acceleration	2000 g shock survival in any direction

Electrical Interface		
Power supply	6 ... 15 V, max. 15 mA	
Typical sensitivity	Sensitivity is **in**dependent 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

Ordering information: IES 3101-xxx

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