

## **Technical Specifications**

General:			
Characteristic		Value	Unit
Supply voltage		3.3 - 4.0	VDC
Current consumption		70	mA
Dimensions: Height x Width x Length		8x26x36	mm
Weight		14	g
Specific:		1	
GYROSCOPES	Measurement range	± 2000 ±34.9	°/s rad/s
	Resolution	0.06	°/S
ACCELEROMETERS	Measurement range	± 4, 8, 16 ± 39.22 – 156.88	g m/s²
	Resolution	0.122	mg
MAGNETOMETERS	Measurement range	± 8.1 ± 810	gauss μT
	Resolution	0.092	μT
Special:			
Built-in calibration to eliminate axes misalignment, adjust sensitivity and compensate the measurements due to external temperature changes.		Built in a compact solid body for waterproof applications.	
Kalman filter to estimate absolute 3D orientation.		Robust algorithm against external magneti fields.	
Sampling frequency: IkHz Output frequency: Up to 500 Hz			).7 degrees RMS I.0 degrees RMS
Types of communication: C	AN.		
<ul> <li>Measured variables:</li> <li>3D Angular Speed (rad/s)</li> <li>3D Acceleration (m/s<sup>2</sup>)</li> <li>3D Magnetic Field (µT)</li> <li>Temperature (°C)</li> </ul>	<ul> <li>Output:</li> <li>Digital: Digitalized signal values at 16 bits.</li> <li>Physical: Physical signal values on the corresponding unit of measurement.</li> <li>Orientation: Direction Cosine Matrix (DCM) or Quaternions. Note: Physical and Orientation data can be sent at the same time.</li> </ul>		