

**Specification**

| POWER REQUIREMENTS         |                   |               |                                     |
|----------------------------|-------------------|---------------|-------------------------------------|
| Voltage (single supply)    | V                 | +4.75 to 5.25 | regulated                           |
| Supply Current             | A                 | 0.1           | min                                 |
| PERFORMANCE                |                   |               |                                     |
| Input range                | °/s               | 300           | for info                            |
| Scale factor (SF)          | mV/°/s            | 7.5           | ±15%                                |
| Bandwidth                  | kHz               | 1             | 2 <sup>nd</sup> order LPF           |
| Angular Random Walk (ARW)  | °/√h              | 0.025         |                                     |
| Output Noise PSD           | μV/√Hz            | 3.3           |                                     |
| Bias, RMS                  | °/h               | 1             | Allan variance min                  |
| Bias Offset                | mV                | 0.1           | typical                             |
| Bias OTR                   | μV/°C             | ±1            | for info                            |
| SF, RMS                    | %                 | 0.02          | In run, day-to-day                  |
| SF OTR                     | %/°C              | -0.03         | typical                             |
| Start-up                   | s                 | <0.03         | 90% of SF                           |
| Dissipation                | W                 | <b>0.25</b>   | @ 20°C (typical)                    |
| ELECTRICAL INTERFACE       |                   |               |                                     |
| Output voltage             | V                 | ±2            |                                     |
| Output Impedance           | kOhm              | 1             |                                     |
| PHYSICAL PARAMETERS        |                   |               |                                     |
| Dimensions                 | mm                | Ø40 x 12      | ISO 2768-m tolerance                |
| Weight                     | gram              | 18            | approx.                             |
| Volume                     | cl                | 1.5           |                                     |
| Housing material           | Al alloy, plastic |               |                                     |
| Ingress protection class   | IP67              |               |                                     |
| ENVIRONMENT                |                   |               |                                     |
| Temperature (operating)    | °C                | -40...+70     | built-in sensor                     |
| Temperature (endurance)    | °C                | -55...+85     | 2 h min, non-operating              |
| Vibration, RMS (endurance) | g                 | 12            | 20 Hz... 2000 Hz                    |
| Output Noise on vibration  | μV/g·Hz           | 3             | typical @NTE 0.2 g <sup>2</sup> /Hz |
| Acceleration (operational) | g                 | 50            |                                     |
| Shocks                     | g                 | 350           | 1 ms half-sine                      |
| Magnetic response          | °/h/Gauss         | 3             | typical (X axis)                    |
| RELIABILITY                |                   |               |                                     |
| MTBF                       | yr                | <b>30</b>     | humidity conditions applied         |
| Lifetime                   | yr                | <b>30</b>     | humidity conditions applied         |
| Temperature sensor         |                   |               |                                     |
| Scale Factor               | mV/°C             | 10            |                                     |
| Output Voltage             | mV                | 750           | @25°C                               |