



FIBER OPTIC GYROSCOPE VG910H

DATASHEET

| | |
|-----------------------|-------------------------------------|
| model 2009 | 0.015 °/vh 12 g RMS |
| series 1990 | Dia 80 mm |
| technology 1990 | Open-loop 40μ fiber Jointless |
| fundamentally 1914 | FREE of |



bias jumps
 g, g^2 errors
 dead zones
 cross axis errors
 day-to-day bias errors



fizoptika.com

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| | Unit | Value | Comments |
|----------------------------|--------|----------------|-------------------------------|
| MAIN PARAMETERS | | | |
| Input range | °/s | 250 | for info |
| Scale factor (SF) | mV/°/s | 8 | typical |
| Frequency range | kHz | 0...1 | 2 nd order LPF |
| ARW | °/√h | 0.015 | white noise PSD |
| Bias, RMS | °/h | 2 | Allan variance min day-to-day |
| SF, RMS | % | 0.02 | day-to-day |
| Start-up | s | < 0.03 | 90% of SF |
| Powering | W | 0.5 | +5V |
| PHYSICAL PARAMETERS | | | |
| Dimensions | mm | 82 x 82 x 20 | ISO 2768-m tolerance |
| Weight | gram | 120 | approx. |
| Volume | cl | 10 | |
| Housing material | | aluminum alloy | anodizing |
| Ingress protection class | | IP67 | |
| ENVIRONMENT | | | |
| Operating temperature | °C | -40...+70 | built-in sensor |
| Endurance temperature | °C | -55...+85 | > 2 h, non -operating |
| Vibration, RMS | g | 12 | 20 Hz... 2000 Hz |
| Shocks | g | 500 | 1 ms half-sine |
| RELIABILITY | | | |
| MTBF | h | 100 000 | humidity conditions applied |
| Lifetime | yr | 15 | |

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