



FIBER OPTIC GYROSCOPE VG091B-2LN (MS*)

DATASHEET

model 2013	0.02 °/vh 2 °/h 0.1 °/h/Gauss
series 1994	Dia 1"
technology 1990	Open-loop 40μ fiber Jointless



fundamentally
1914

FREE

of

- bias jumps
- g, g² errors
- dead zones
- cross axis errors
- day-to-day bias errors

DATASHEET

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	Unit	Value	Comments
MAIN PARAMETERS			
Input range	°/s	60	for info
Scale factor (SF)	mV/°/s	33	tolerance 15%, -0.05% /°C
Frequency range	kHz	0...1	2 nd order LPF
ARW	°/√h	0.02	white noise PSD
Bias, RMS	°/h	2	Allan variance min day -to -day
Magnetic response	°/h/Gauss	< 0.1*	magnetically shielded option
SF, RMS	%	0.02	day-to-day
Start-up	s	< 0.03	90% of SF
Powering	W	0.5	5V
PHYSICAL PARAMETERS			
Dimensions	mm	∅29x52	ISO 2768-c tolerance
Weight	gram	35 (60*)	approx.
Volume	cl	3.1 (3.4*)	
Housing material		aluminum alloy (μ-metal*)	anodizing (powder coating)
Ingress protection class		IP67	
ENVIRONMENT			
Operating temperature	°C	-40...+70	built-in sensor TMP-36
Endurance temperature	°C	-55...+85	> 2 h, non -operating
Vibration, RMS	g	18	20 Hz... 2000 Hz
Shocks	g	350	1 ms half-sine
RELIABILITY			
MTBF	h	100 000	humidity conditions applied
Lifetime	yr	15	

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