FIBER OPTIC GYROSCOPE VG103S-2LND

SPECIFICATION

POWER REQUIREMENTS			
Voltage (single supply)	V	+4.75 to 5.25	regulated
Supply Current	A	0.15	min
PERFORMANCE			
Input range	°/s	200	for info
Scale factor (SF)	mV/°/s	8	±15%
Bandwidth	kHz	1	2nd order LPF (analog filter)
Angular Random Walk (ARW)	°/√h	0.007	
Output Noise PSD	µV/√Hz	1	
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
Initialization	s	<0.03	
Dissipation	W	0.5	@ 20°C (typical)
ELECTRICAL INTERFACE			
Data rate	kHz	8	24 bit data
Baud rate	kBd	920	RS422, asynchronous
PHYSICAL PARAMETERS			
Dimensions	mm	ø55 x 17	ISO 2768-m tolerance
Weight	gram	40	approx.
Volume	cl	4	
Housing material		hard 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	18	20 Hz… 2000 Hz
Output Noise on vibration	µV/g·Hz	10	typical @NTE 0.2 g^2/Hz
Acceleration (operational)	g	50	
Shocks	g	350	1 ms half-sine
Magnetic response	°/h/Gauss	1.5 (0.03*)	typical (X axis)
			*with optional µ-shield
RELIABILITY			
MTBF	h	100 000	humidity conditions applied
Lifetime	yr	15	humidity conditions applied
Temperature sensor TMP36			
Scale Factor	mV/°C	10	
Output Voltage	mV	750	@25°C

Fizoptika reserves the right to change the design or specifications at any time without prior notice. All pictures shown are for illustration purpose only. The actual product may vary due to the ongoing product enhancement.