



FIBER OPTIC GYROSCOPES

VG103S SERIES

Main parameters

PERFORMANCE	VG103S	VG103SE	VG2103S	VG103SD	VG103S-2LND
Input range (°/s)	400	400	350	400	200
Bias stability / Bias repeatability (RMS, °/h)	1	1	1	1	1
Angle random walk (°/√h)	0.02	0.02	0.02	0.015	0.007
Bandwidth (kHz)	1	1	1	1	1
SF stability / SF repeatability (RMS, %)	0.02	0.02	0.02	0.02	0.02
Magnetic response (°/h/Gauss)	1	1	2	1	1

ELECTRICAL INTERFACE					
Start-up (s)	0.03	0.03	0.03	0.03	0.03
Powering (W)	0.5	0.5	0.5	0.5	0.5
Data rate (kHz)	-	-	-	8	8
Baud rate (kBd)	-	-	-	921.6	921.6

PHYSICAL PARAMETERS					
Dimensions (mm)	Ø55 x 17	Ø55 x 17	60 x 60 x 17	Ø55 x 17	Ø55 x 17
Weight (gram)	40	40	70	40	40
Volume (cl)	4	4	4.5	4	4
Housing material	plastic	plastic	Al alloy	plastic	plastic

ENVIRONMENT					
Operating temperature (°C)	-40...+70	-40...+70	-40...+70	-40...+70	-40...+70
Endurance temperature (>2 h, °C)	-55...+85	-55...+85	-55...+85	-55...+85	-55...+85
Vibration (RMS, 0.02 - 2 kHz, g)	30	18	18	18	18
Shocks (g, 1 ms)	1200	750	1200	350	350

RELIABILITY					
MTBF (20°C) / Lifetime (yrs)*	15	10	15	15	15

* Humidity conditions applied