



## FIBER OPTIC GYROSCOPES

### VG091 SERIES

#### Main parameters

PERFORMANCE	VG091A	VG091A-4LN	VG191A	VG191AD
Input range (°/s)	300	60	250	300
Bias stability / Bias repeatability (RMS, °/h)	3	1	1	1
Angle random walk (°/√h)	0.04	0.01	0.015	0.012
Bandwidth (kHz)	1	1	1	1
SF stability / SF repeatability (RMS, %)	0.02	0.02	0.02	0.02
Magnetic response (°/h/Gauss)	3	0.03	4 / 0.1*	3 / 0.05*

#### ELECTRICAL INTERFACE

Start-up (s)	0.03	0.03	0.03	0.03
Powering (W)	0.5	0.5	0.5	0.5
Data rate (kHz)	-	-	-	8
Baud rate (kBd)	-	-	-	920

#### PHYSICAL PARAMETERS

Dimensions (mm)	Ø24x52	Ø24x52	Ø24x40	Ø24x48
Weight (gram)	30	50	30 / 40*	30 / 45*
Volume (cl)	2.4	2.4	1.8	2.2
Housing material	Al alloy	μ-metal	Al alloy / μ-metal*	Al alloy / μ-metal*

#### ENVIRONMENT

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

#### RELIABILITY

MTBF / Lifetime (yrs)**	15	15	15	15
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\* Magnetically shielded

\*\* Humidity conditions applied