



MAIN PARAMETERS (typical values)

- ◆ Rate range 300 deg/s
- ◆ Scale Factor (SF) 10 mV/deg/s
- ◆ Frequency range 0... 0.45 kHz
- ◆ Angle random walk 0.05 deg /√h
- ◆ Bias stability, RMS 3 deg / h
- ◆ SF stability, RMS 0.1 %
- ◆ Readiness time 0.1 s

ENVIRONMENT

- ◆ Temperature operating -30°C ... +70°C
- ◆ Temperature endurance -55°C... +85°C
- ◆ Vibration (operating), RMS 6 g, 20Hz... 2000Hz
- ◆ Vibration (endurance), RMS 12 g, 20Hz... 2000Hz
- ◆ Shocks (endurance) 150 g, 1 ms
- ◆ Acceleration (operating) 5 g
- ◆ Acceleration (endurance) 20 g, 5 s

RELIABILITY

- ◆ MTBF 90000 hours (20°C, predicted)
- ◆ Lifetime (predicted) 15 years
- ◆ Precision class - ④
- ◆ Estimated for low humidity

DESCRIPTION OF OUTPUT CONNECTOR PLS2-5

Contact	Name	Description
1	TS	Output of temperature sensor (TMP-36) 10mv per deg.C; 0.75V at 25 deg.C
2	+ 5 V	Power input +5V ± 0.25V, 300mA max, ripple 10mV max within 0-1MHz
3	AGND	Analog ground to use with "OUTPUT". Differential input recommended. Galvanic coupling with "GND".
4	OUTPUT	Output voltage proportional to rotation, scale factor 10 mV/deg/sec. Differential input recommended.
5	GND	Power return line, ground

RECOMMENDATIONS AND PRECAUTIONS

1. Do not deform housing
2. Fragile components inside - no shocks, no drop
3. Treat as electrostatic sensitive unit
4. Is designed to be mounted inside water protected equipment
5. Increased humidity shortens essentially lifetime
6. Mounting surface must be grounded
7. Power must be off during connecting
8. Soldering to contacts - by low-temperature solder

PHYSICAL PARAMETERS

1. Ω - sensing axis, 90° ± 1° to the reference plane
2. Dissipation - 1 W
3. Weight - 80 gram (100 gram max)
4. Volume - 0.05 litre
5. Housing material - aluminum alloy
6. Tolerances per ISO 2768-m
7. Ingress protection class - IP67

