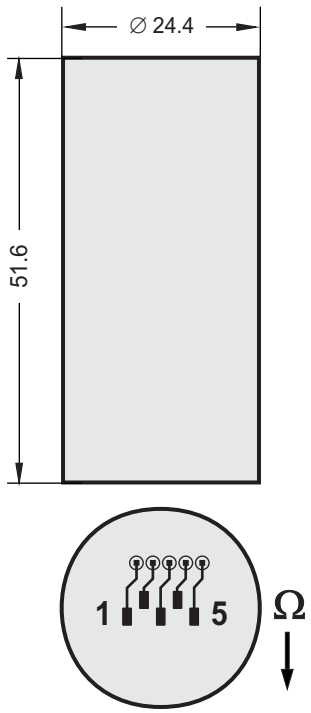
OUTLINE DRAWING



MAIN PARAMETERS (typical values)

♦ Rate range	300 deg/s
Scale Factor (SF)	7 mV/deg/s
Frequency range	0... 1 kHz
Angle random walk	0.04 deg /√h
Bias stability, RMS	4 deg / h
SF stability, RMS	0.1 %
Readiness time	0.02 s

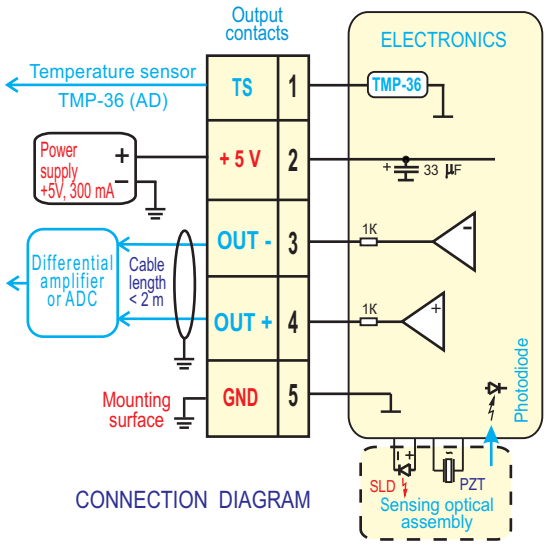
ENVIRONMENT

Temperature operating	-40°C ... +70°C
endurance (2 hours)	-55°C... +85°C
Vibration, RMS	12 g, 20Hz... 2000Hz
Shocks	150 g, 1 ms
Acceleration	5 g

♦♦ RELIABILITY

MTBF	60000 hours (20°C, predicted)
Lifetime (predicted)	15 years

♦ Precision class - ④
♦♦ Estimated for low humidity



CONNECTION DIAGRAM

DESCRIPTION OF OUTPUT CONTACTS

Contact	Name	Comments
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, 200mA max, ripple 10mV max within 0-1MHz
3	OUT -	Analog output (~ - 3.5 mV/ °/s), 1V biased to "GND" *
4	OUT +	Analog output (~ + 3.5 mV/ °/s), 1V biased to "GND" *
5	GND	Power return line, ground.

* - sensor's output is a difference between the voltages at 4 and 3 contacts

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
2. Dissipation - 1 W
3. Weight - 30 gram (40 gram max)
4. Volume - 0.025 litre
5. Housing material - aluminum alloy
6. Housing protection - anodizing
7. Tolerances per ISO 2768-m
8. Ingress protection class - IP67