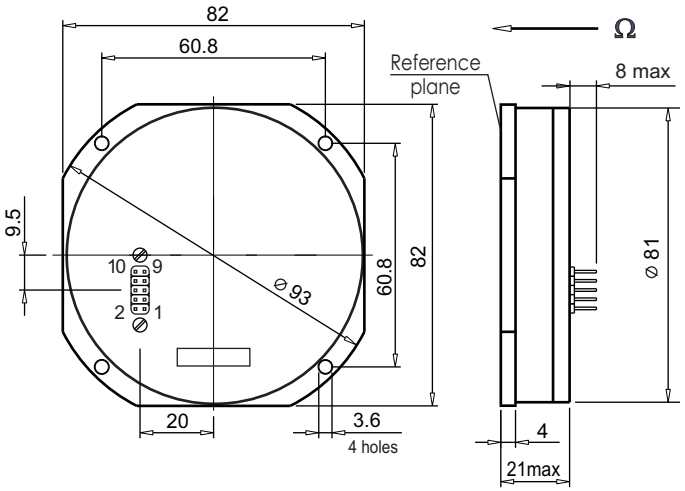
OUTLINE DRAWING



MAIN PARAMETERS (typical values)

♦	Rate range	150 deg/s
	Scale Factor (SF)	7 mV/deg/s
	Frequency range	0... 0.45 kHz
	Angle random walk	0.02 deg / $\sqrt{h}$
	Bias stability, RMS	1 deg / h
	SF stability, RMS	0.1 %
	Readiness time	0.1 s

ENVIRONMENT

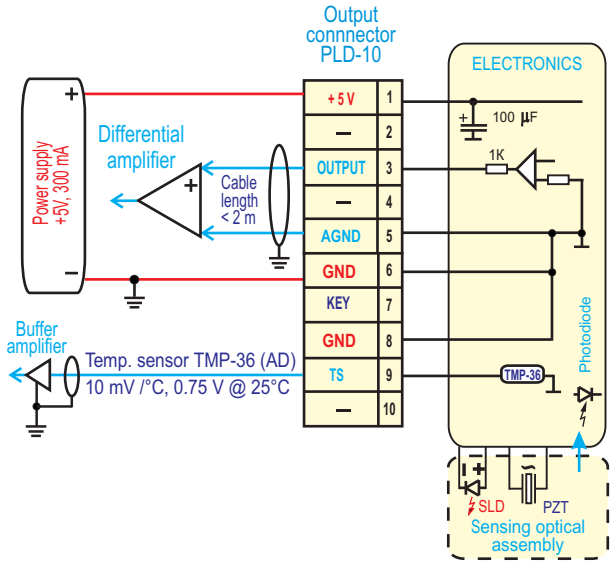
♦♦♦	Temperature operating	-30°C ... +70°C
♦♦♦♦	endurance	-55°C... +75°C
	Vibration (operating), RMS	2 g, 20Hz... 2000Hz
	Vibration (endurance), RMS	6 g, 20Hz... 2000Hz
	Shocks (endurance)	90 g, 1 ms
	Acceleration (operating)	5 g
	Acceleration (endurance)	20 g, 5 s

RELIABILITY

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

♦ Precision class - ④
♦♦ Estimated for low humidity
♦♦♦ Operating temperature - temperature of built-in temperature sensor
♦♦♦♦ Endurance temperature - environment temperature. Sensor is turned off.

CONNECTION DIAGRAM



DESCRIPTION OF OUTPUT CONNECTOR **PLD-10**

Contact	Name	Comments
1	+ 5 V	Power input +5V ± 0.25V, 200mA max, ripple 10mV max within 0-1MHz
2, 4	—	Reserved
3	OUTPUT	Output voltage proportional to rotation, scale factor 7 mV/deg/sec. Differential input recommended.
5	AGND	Analog ground to use with "OUTPUT". Differential input recommended. Galvanic coupling with "GND".
6, 8	GND	Power return line, ground
7	KEY	Shortened pin
9	TS	Output of temperature sensor (TMP-36) 10mv per deg.C; 0.75V at 25 deg.C
10	—	Reserved

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. Power must be off during connecting
7. 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 - 85 gram (100 gram max)
4. Volume - 0.1 litre
5. Housing material - plastic
6. Tolerances per ISO 2768-m
7. Ingress protection class - IP67