

External connector PLD-10

Contact	Name	Description
1	+ 5 V	Power input +5V ± 0.25V, 300mA max, ripple 10mV max within 0-1MHz
2, 4	—	Reserved
3	OUTPUT	Output voltage (20 mV/deg/sec). Differential input recommended.
5	AGND	Analog ground to use with OUTPUT. Differential input recommended.
6, 8	GND	Power return line, ground.
7	KEY	Shortened pin
9	TS (option)	Output of temperature sensor (TMP-36) 10mv per deg.C; 0.75V at 25 deg.C
10	—	Reserved

MAIN PARAMETERS

◆ Rate range	60 deg/s
Scale Factor (SF)	20 mV/deg/s
Frequency range	0...0.45 kHz
Angle random walk	0.015 deg /√h
Bias stability	1 deg / h (RMS)
SF variation (steady state)	0.1 % (RMS)
Readiness time	0.1 s

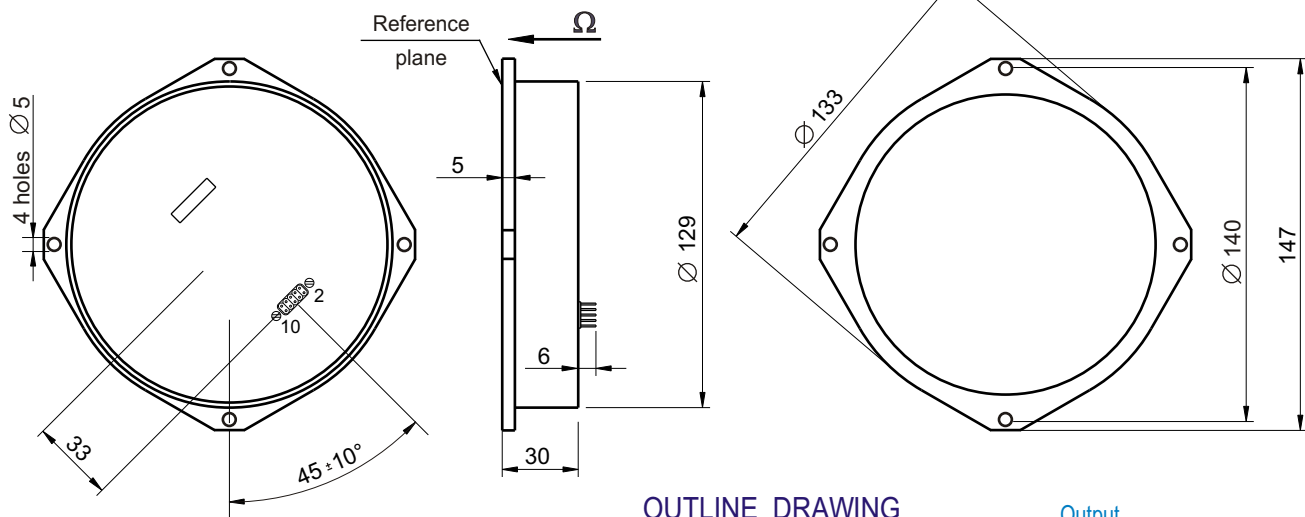
ENVIRONMENT

Temperature operating	-30°C ... +70°C
endurance	-55°C...+85°C
Vibration (operating)	2 g (RMS), 20Hz... 500Hz
Vibration (endurance)	2 g (RMS), 20Hz... 500Hz
Shocks (endurance)	40 g, 1 ms
Acceleration (operating)	5 g
Acceleration (endurance)	20 g, 5 s

RELIABILITY

MTBF	20000 hours (20°C, predicted)
Lifetime (predicted)	15 years

- ◆ Rate range (measurement) - grade 4.0 (linearity error - 4%)
- ◆◆ Rate range (indication) -100 deg/s (min) (linearity error - 15%)

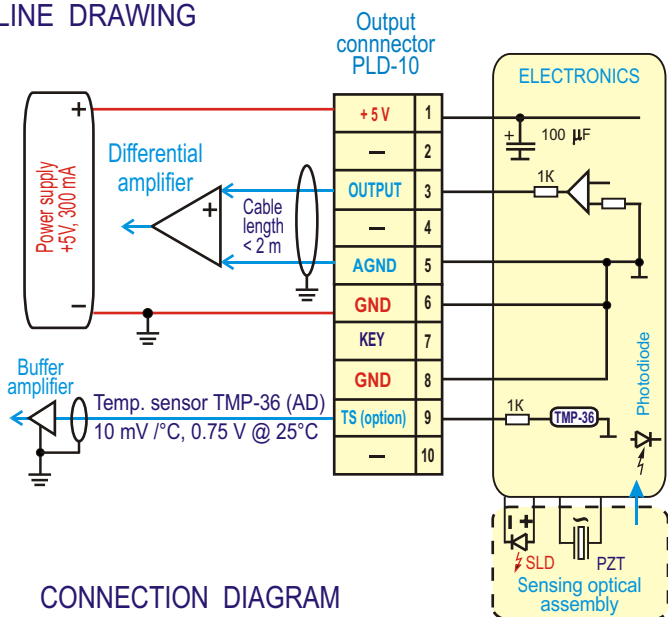


OUTLINE DRAWING

MOUNTING AND CONNECTING

1. Do not deform housing and output pins
2. Fragile components inside - no shocks, no drop
3. Treat as electrostatic sensitive unit
4. Power must be off during connecting
5. Soldering to contacts by low-temperature solder

1. Ω - sensing axis, 90° ± 0.5° to the reference plane
2. Dissipation - 1.5 W
3. Weight - 240 gram (300 gram max)
4. Volume - 0.4 litre
5. Housing material - plastic
6. Tolerances - ± 0.5 IT14



CONNECTION DIAGRAM