

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 |

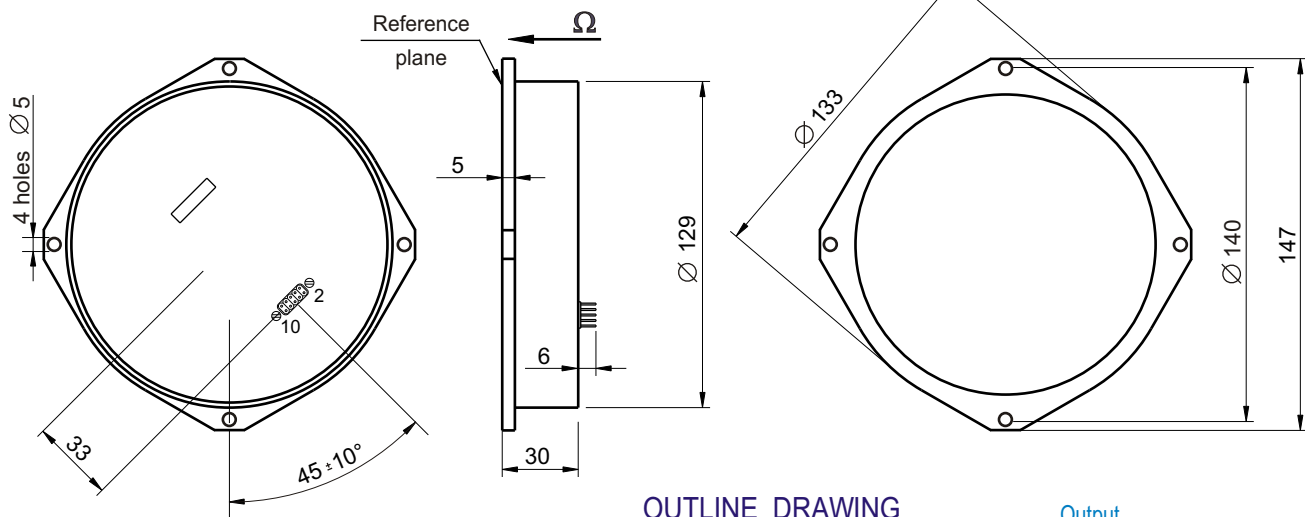
ENVIRONMENT

| | |
|--------------------------|--------------------------|
| 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%)

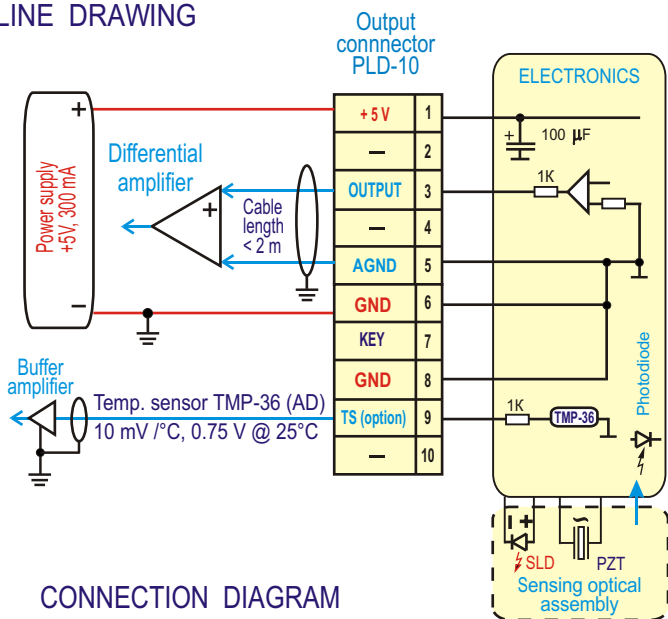


OUTLINE DRAWING

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