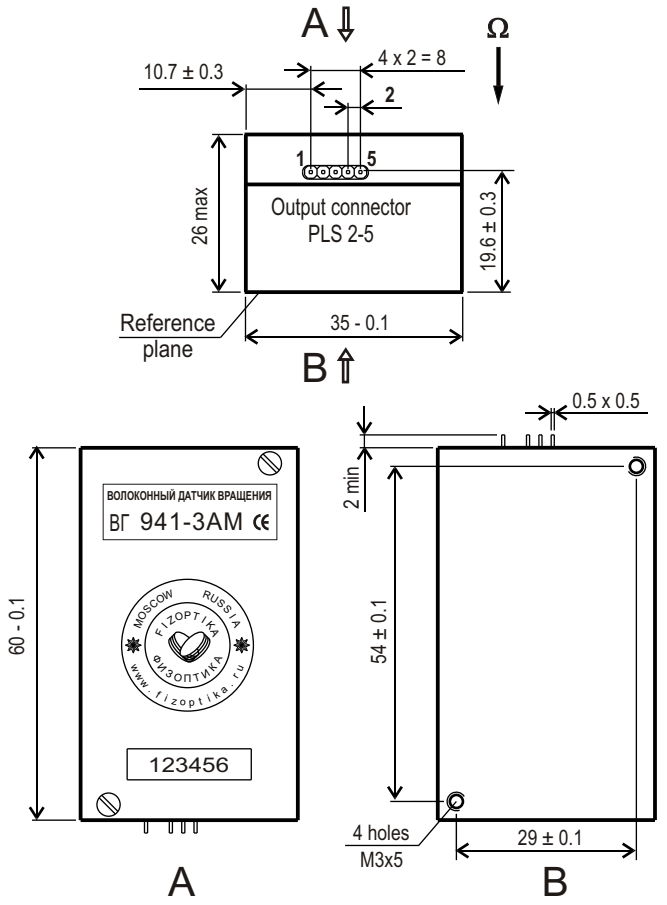
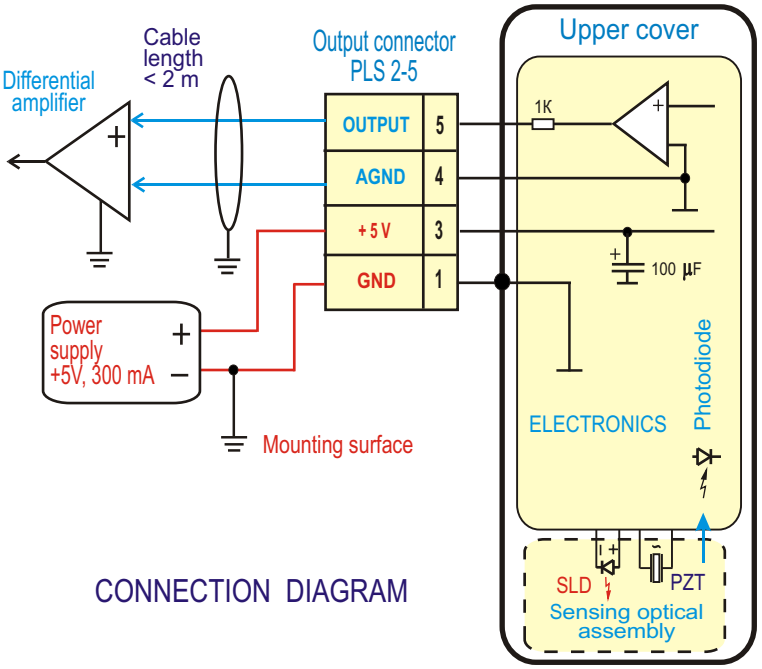
VG 941-3AM



OUTLINE DRAWING



CONNECTION DIAGRAM

MAIN PARAMETERS

Input range	± 500 deg/s (± 15%)
Scale Factor (SF)	3.7 mV/deg/s (± 15%)
Frequency range	0...450 Hz
Noise (PSD)	0.01 mV/√Hz
Bias variation (steady state)	0.015 mV (RMS)
SF variation (steady state)	0.05 % (RMS)
SF change (over temp. range)	- 0.05 % / °C
Readiness time	0.1 s

ENVIRONMENT

Temperature operating	-30°C ... +70°C
non-operating	-55°C... +85°C
Vibration non-operating	6 g (RMS), 20Hz... 2000Hz
Shocks non-operating	90 g, 1 ms

RELIABILITY

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

Output connector PLS2-5

Contact	Name	Description
1	GND	Power return line, ground, electrically connected to the sensor's cover
2	KEY	Shortened pin
3	+ 5 V	Power input +5V ± 0.25V, 300mA max, ripple 10mV max within 0-1MHz
4	AGND	Analog ground to use with "OUTPUT". Differential input recommended. Galvanic coupling with "GND".
5	OUTPUT	Output voltage proportional to rotation, scale factor 3.7 mV/deg/sec. Differential input recommended.

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. Mounting surface must be grounded
5. Power must be off during connecting
6. After installation calibrate bias and scale factor
7. Soldering to contacts by low-temperature solder

1. Ω - sensing axis, 90° ± 0.5° to the reference plane
2. Dissipation - 1 W
3. Weight - 80 gram
4. Volume - 0.05 litre
5. Housing material - aluminum alloy
6. Tolerances - H12; h12, T12