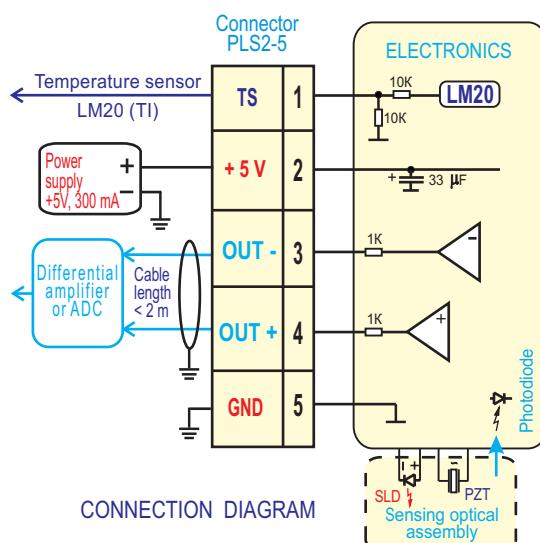


OUTLINE DRAWING



CONNECTION DIAGRAM

## PHYSICAL PARAMETERS

1.  $\Omega$  - sensing axis,  $90^\circ \pm 1^\circ$  to the reference plane
2. Dissipation - 1 W
3. Weight - 40 gram ( 60 gram max )
4. Volume - 0.065 litre
5. Housing material - plastic
6. Tolerances per ISO 2768-m
7. Ingress protection class - IP67

## MAIN PARAMETERS ( typical values )

♦ Rate range	350 deg/s
Scale Factor (SF)	4.2 mV/deg/s
Frequency range	0... 1 kHz
Angle random walk	0.03 deg / $\sqrt{\text{h}}$
Bias stability, RMS	4 deg / h
SF stability, RMS	0.1 %
Readiness time	0.02 s

## ENVIRONMENT

♦♦♦ Temperature operating	-55°C ... +70°C
♦♦♦♦ endurance ( 2 hours )	-60°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
- ♦♦♦ Operating temperature - temperature of sensor' surface
- ♦♦♦♦ Endurance temperature - environment temperature. Sensor is turned off.

## DESCRIPTION OF OUTPUT CONTACTS (PLS2-5)

Contact	Name	Comments
1	TS	Output of temp. sensor ( LM20BIM7(TI) ) T [ °C ] = 160 - 172 · Urs [ V ]
2	+ 5 V	Power input + 5V ± 0.25V, 200mA max, ripple 10mV max within 0-1MHz
3	OUT -	Analog output (~ 2.1 mV/°s), * 1V biased to "GND"
4	OUT +	Analog output (~ 2.1 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 and output pins
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