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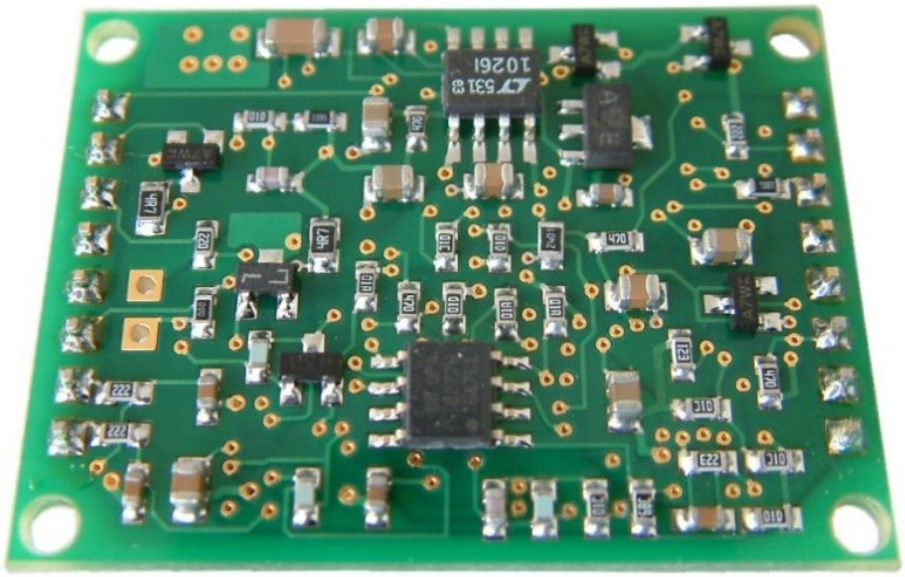
GSV-1L



Highlights

- Tare function via control cable
- 250 Hz Filter in the standard version
- 2,5 kHz or 10kHz Filter optionally
- ±5 or ±10 V output

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Description

The PCB GSV-1L measures only 30mm x 40.5mm x 6.5mm and can be easily integrated as an addon on larger PCB boards (Pin headers are integrated).

The high limiting frequency of 250 Hz is suitable for the detection of static and dynamic signals from sensors with strain gauges.

The automatic automatic zero adjustment store settings permanently in the nonvolatile memory also by voltage interruption.

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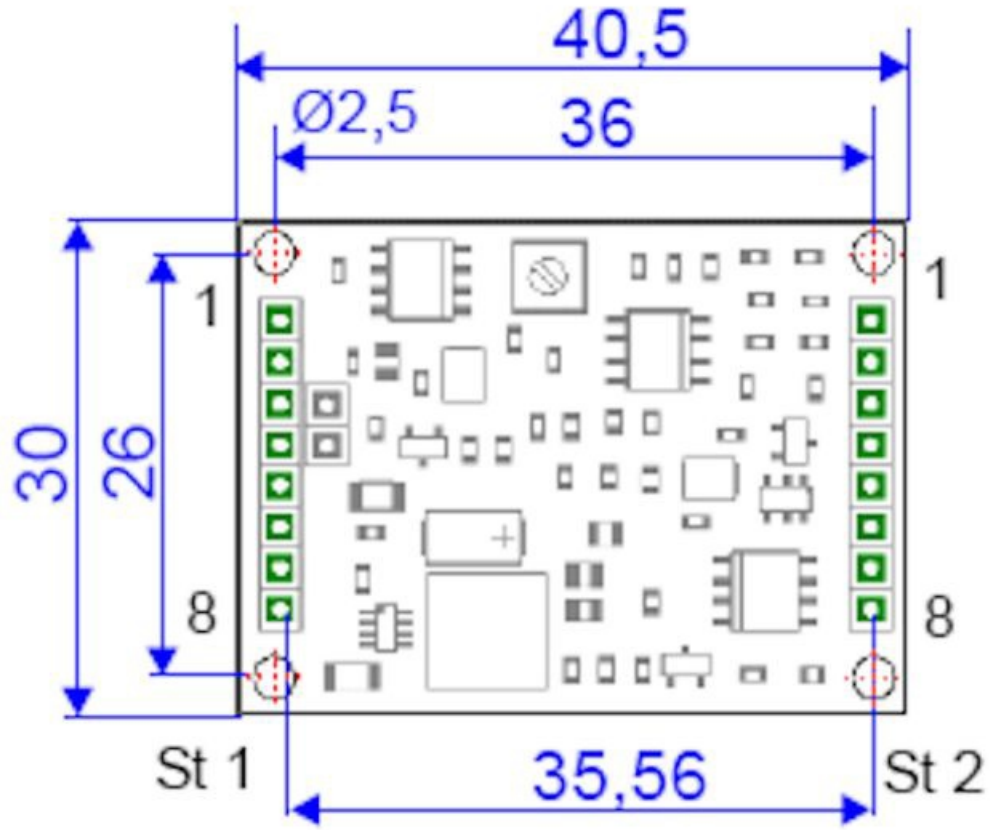
Dimensions



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Technical Data

Basis Data

Housing	PCB	
Connection	Solder connection	
Number of channels	1-Kanal	

Input analog

Input sensitivity-steps	2.0 | 1.0 | 3.5	mV/V
Input resistance strain-gauge-full-/half-bridge	87 ... 5000	Ohm

Precision

Accuracy class	0,1%	
Relative linearity error	0.02	%FS
Temperature effect on the zero point	0.2	%FS/10°C
Temperature effect on the measuring sensitivity	0.1	%RD/10°C

Supply

Supply voltage f	10 ... 28	V
Strain gauge bridge supply	5	V

Zero adjustment

Tolerance	5	mV
Time period	90	ms
Debouncing time	4	ms
Trigger level f	3.5 ... 30	V
Trigger edge	falling	

Temperature

Rated temperature range f	-10 ... 65	°C
Operating temperature range f	-40 ... 85	°C

Output analog

Number of analog outputs	1	
Output resistance - voltage	47	Ohm

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Mounting

Pin configuration

St 1		St 2	
1	$-U_D$: negative differential input	1	$+U_B$: voltage supply
2	$+U_D$: positive differential input	2	GND : mass
3	$+U_S$: positive bridge supply	3	assigned internally
4	$-U_S$: negative bridge supply (GND)	4	assigned internally
5	GND : mass	5	assigned internally
6	$+U_A$: Analog output	6	assigned internally
7	$+U_B$: voltage supply	7	assigned internally
8	T: control input zero balance	8	T: control input zero balance

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Orderoptions

Type	Description
GSV-1L ±5/250/2	Output -5...5 V, 250 Hz, input ±2 mV/V
GSV-1L ±5/2k5/2	Output -5...5 V, 2.5 kHz, input ±2 mV/V
GSV-1L 010/250/2	Output -10...10 V, 250 Hz, input ±2 mV/V
GSV-1L 010/2k5/2	Output -10...10 V, 2.5 kHz, input ±2 mV/V