

## GSV-1M



### Highlights

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



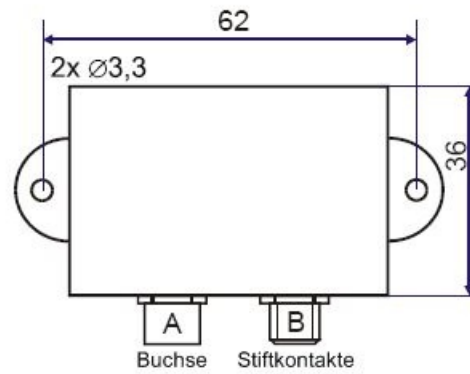
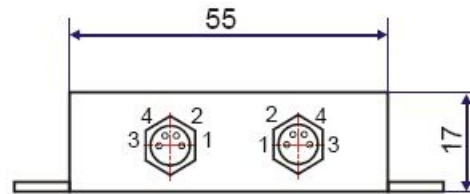
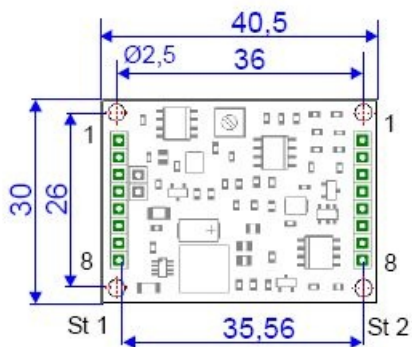
## Description

The module GSV-1M is an encapsulated version of the printed circuit board GSV-1L with miniature M8 connectors.

The high limiting frequency of 10 kHz is suitable for the detection of static and dynamic signals from sensors with strain gauges.

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

## Dimensions



## Technical Data

### Basis Data

Housing	Grouting
Connection	Connector
Number of channels	1-Kanal

### Input analog

Input sensitivity-steps	2.0   3.5   1.0	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	11 ... 26	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
Environmental protection	IP67	

### Measuring frequency

Limit frequency (analog)	250	Hz
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## Mounting

### Pin configuration

	PIN Nr.		
A spring contacts	1	+U <sub>S</sub> positive bridge supply	brown
	2	-U <sub>S</sub> negative bridge supply	white
	3	+U <sub>D</sub> positive differential input	blue
	4	-U <sub>D</sub> negative differential input	black


	PIN-Nr.		
B pin contacts	1	+U <sub>B</sub> supply voltage	brown
	2	+U <sub>A</sub> Analog output	white
	3	GND: mass	blue
	4	T. control input zero balance	black

St 1		St 2	
1	-U <sub>D</sub> : negative differential input	1	+U <sub>B</sub> : voltage supply
2	+U <sub>D</sub> : positive differential input	2	GND : mass



3	+U <sub>S</sub> : positive bridge supply	3	assigned internally
4	-U <sub>S</sub> : negative bridge supply (GND)	4	assigned internally
5	GND : mass	5	assigned internally
6	+U <sub>A</sub> : Analog output	6	assigned internally
7	+U <sub>B</sub> : voltage supply	7	assigned internally
8	T: control input zero balance	8	T: control input zero balance

## accessories

Description	Description
	Configuration 4p/m/M8
	Connector Type 718, 4 pin, male, pins on cable



## Orderoptions

Type	Description
GSV-1L $\pm 5/250/2$	Output -5...5 V, 250 Hz, input $\pm 2$ mV/V
GSV-1L $\pm 5/10\text{kHz}/2$	Output -5...5 V, 2.5 kHz, input $\pm 2$ mV/V
GSV-1L 010/250/2	Output -10...10 V, 250 Hz, input $\pm 2$ mV/V
GSV-1L $\pm 5/250/3,5$	Output -5...5 V, 250 Hz, input $\pm 3.5$ mV/V