Measuring amplifier GSV-6T3 CAN/M12

Item number: 15024

Highlights

- 3 channels for connecting sensors with strain gauges
- USB interface for configuration and data acquisition
- CANbus
- 1kHz data frequency
- Ultraminiature flange housing 84.3mm x 50mm x 32mm

The GSV-6T3 CAN/M12 measuring amplifier is a 3-channel measuring amplifier for strain gauges with a CAN interface and USB port.
Sensors with full-bridge strain gauges are connected via the 5-pin M12 sockets on the front. An M12 socket and an M12 plug are available on the back for connecting the CAN bus line. The GSV-6T3 CAN/M12 measuring amplifier is supplied with 18 V DC to 28 V DC via the CAN bus line. Alternatively, the GSV-6T3 CAN/M12 can be supplied with 5 V DC via the USB interface.Measurement data can be recorded both via the integrated USB port and via the CANbus using the GSVmulti software. The GSVmulti software allows measurement data to be read, recorded and visualized via the CANbus using a “PCAN-USB” converter.The measuring amplifier GSV-3CAN-T3 is factory-configurable for the connection of strain gauge quarter bridges 120 Ohm, 350 Ohm or 1kOhm in three-wire technology.

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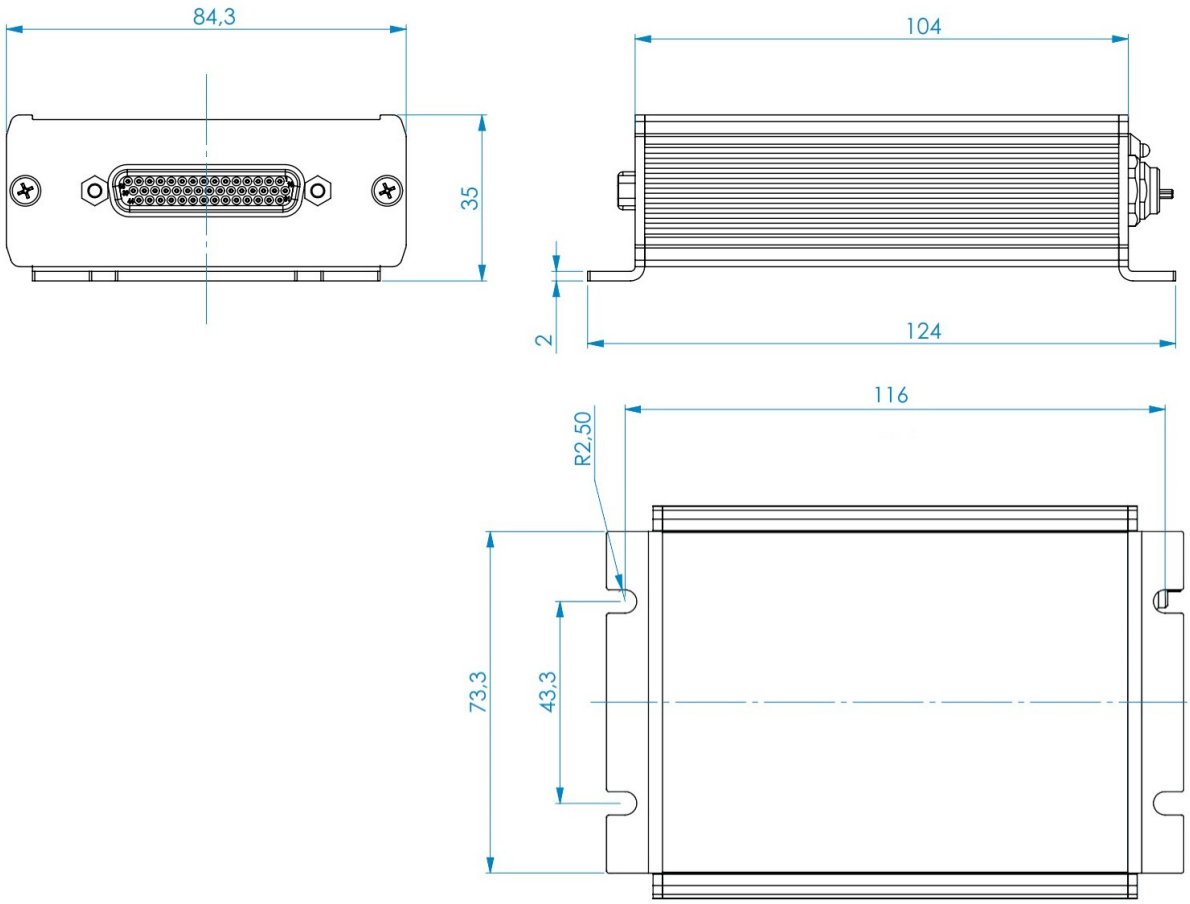
Stand: 15.07.2024

Technical Drawing



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Technical Data

Basic Data		Unit
Dimensions	84,3 x 50 x 32	mm³
Housing	Aluminium	
Connection	Plug connector	
Number of channels	3-channel	
Schnittstelle	USB, CAN	

Input analog		Unit
Number of analog inputs	3	
Input sensitivity-steps	2.0	mV/V
Strain-gauge-full-bridge resistance from	120	Ohm
Strain-gauge-full-bridge resistance to	5000	Ohm

Output analog		Unit

Accuracy data		Unit
Accuracy class	0,1%	
Relative linearity error	0.02	%
Temperature effect on the zero point	0.01	%
Temperature effect on the measuring sensitivity	0.01	%
Resolution	16	bit

Measuring frequency		Unit
Data frequency from	0	Hz
Data frequency to	1000	Hz

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Supply		Unit
Supply voltage from	10	V
Supply voltage to	28	V
Current consumption from	100	mA
Current consumption to	200	mA
Strain gauge bridge supply	5	V

Interface		Unit

Environmental Data		Unit
Rated temperature range from	0	°C
Rated temperature range to	50	°C
Operating temperature range from	-20	°C
Operating temperature range to	65	°C
Environmental protection	IP50	

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