Web www.me-systeme.de



DA120e ±100µm/m



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Description

Thanks to its closed construction, the DA120 strain sensor is suitable for measuring strain and force on machine elements and components in harsh

Easy installation by screwing on with 4 M6 screws. Mechanical strain on the component is transferred to the strain sensor using via 4 fixing screws and is transformed into an electrical output signal.

Example applications include force monitoring level measurement.

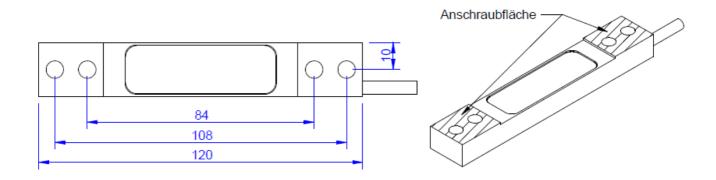
Output signal, thermal behaviour and transmission ratio depend on the geometry and combination of materials. Therefore, calibration is performed by applying of a force.

The Strain sensor DA120e is implemented for the measurement of loads. Application areas are machines, buildings, vehicules, containers and silos. The strain sensor must be fastened with 4 bolts M6. The strain on the surface of the constructional element is measured by the strain sensor due to the boltedassembly.

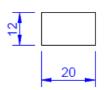
The "DA120e" strain sensor includes an integrated GSV-15L measuring amplifier. The measuring amplifier has a voltage- or current output and a threshold value output. Amplification, zero point and threshold value can each be programmed via a digital input.

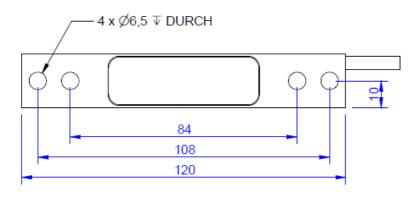


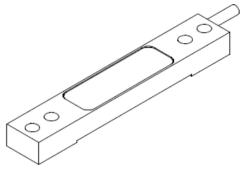
Dimensions











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Technical Data

Electrical Data

Input resistance	350	Ohm
Tolerance input resistance	1	Ohm
Insulation resistance	5	G0hm
Rated range of excitation voltage f	2.5 5	V
Operating range of excitation voltage f	2.5 10	V

Measuring frequency

Data frequency f	5 105	Hz
Sampling frequency	105	Hz

Supply

Supply voltage f	14 30	V
Current consumption from	15	mA

Connection Data

Connection type	7-Leiter offen	
Name of the connection	Unitronic FD CP Plus 7x0,14	
Cable length	5 m	

Basic Data

Туре	Dehnungsaufnehmer	
Nominal strain	100	μm/m
Operating strain	400	μm/m
Material	Tool steel	
Surface	electrogalvanized	

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Pin Configuration

Symbol	Description Wire colour		PIN	
Ub	Supply voltage (24V or 12V DC)	brown	1	
GND	Connect ground, supply voltage	white	white 2	
Ua	Output signal 420mA / 010V	green	green 3	
Tara	Control input for zero balance	yellow	4	
Scale	Control input for amplification factor	grey	5	
SW	Threshold output	pink	6	
GND	Connect ground, signal	blue	7	
	shiled (is not connected with the housing)	transparent		

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With integrated electronics GSV-15L / GSV-6L.

Ground signal connected to ground supply internally.



accessories

	Description	Description
Î,	Aktivator-11	Spray 200ml; Activator solvent-based for anaerobic adhesives;
	Loxeal-8521	Retainer anaerobic for DA70, DA90, DA120, high-strength; -55°C+ 150°C;