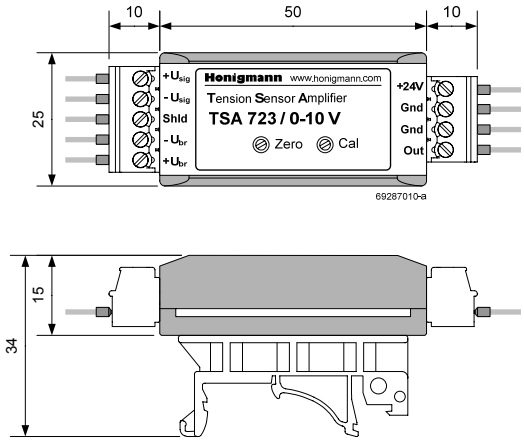
TSA 723

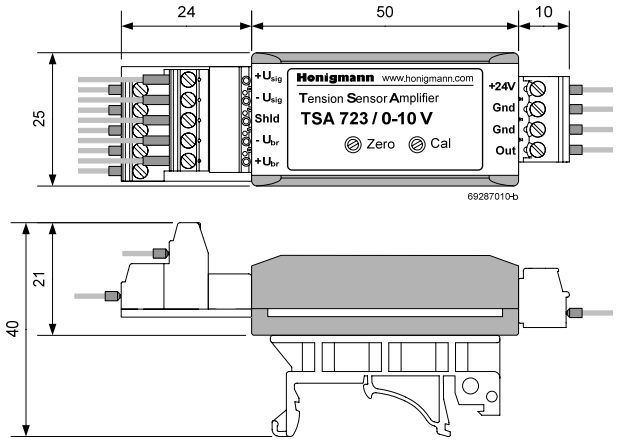
Miniature measuring amplifier for strain gauge sensors

Scale drawing

Connection P (Standard)



Connection 2P



All dimensions in mm

Order code

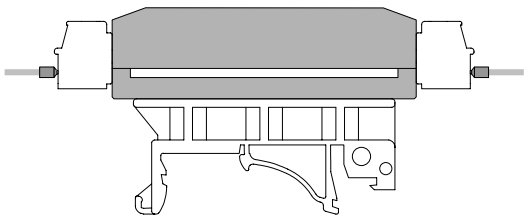
		TSA 723 - 010 - P - R
Type		
Output signal	010 *	Voltage 0-10V
	020	Current 0-20mA
	420	Current 4-20mA
Connection	P *	Cable outlet parallel to plug-in direction
	2P	Adapter to connect 2 sensors
Mounting	R *	with mounting rail adapter
	O	without mounting rail adapter

* standard

Connection types

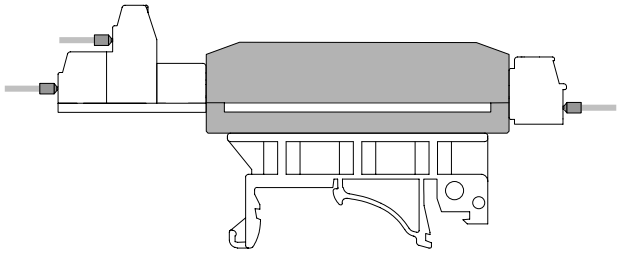
Code P (Standard)

Sensor Power / Out



Code 2P

Sensor Power / Out



Scope of supply

- Measuring amplifier
- Connectors

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Technical data

Design		robust aluminium housing
Sensors to be connected		strain gauge, full bridge
Admissible connection impedance	Ω	175 to 1000
Accuracy class		0,1
Bridge excitation voltage	V DC	10
Nominal gain G_{nom}		667
Nominal measuring range U_{sig}	mV	± 15 (accordant 1,5 mV/V at 10V excitation voltage)
Adjustment range calibration (CAL)	% F_N	85 to 100 to 500
Adjustment range zero (ZERO)	% F_N	± 45
Cut-off frequency f_C (-3 dB)	Hz	approx. 70
Output		
- voltage output (standard)	V	0 to ± 10, max. 1 mA
- current output 0-20 (optional)	mA	0 to 20, admissible load 100 to 300 Ω
- current output 4-20 (optional)	mA	4 to 20, admissible load 100 to 300 Ω
Nominal temperature range	°C	0 to 50
Operation temperature range	°C	-10 to 70
Storage temperature range	°C	-30 to 75
Temperature influence per 10 K		
- on zero at amplifier output	mV	< 10
- on calibration	% [1]	< 0,05
Supply voltage	V DC	20 to 28
Current consumption (350 Ω bridge, no load)	mA	approx. 36
Connection		plugs with screw terminals for flexible cable 0,08 to 1,5 mm²
Dimensions		see scale drawing
Weight	g	approx. 40

[1] of final value

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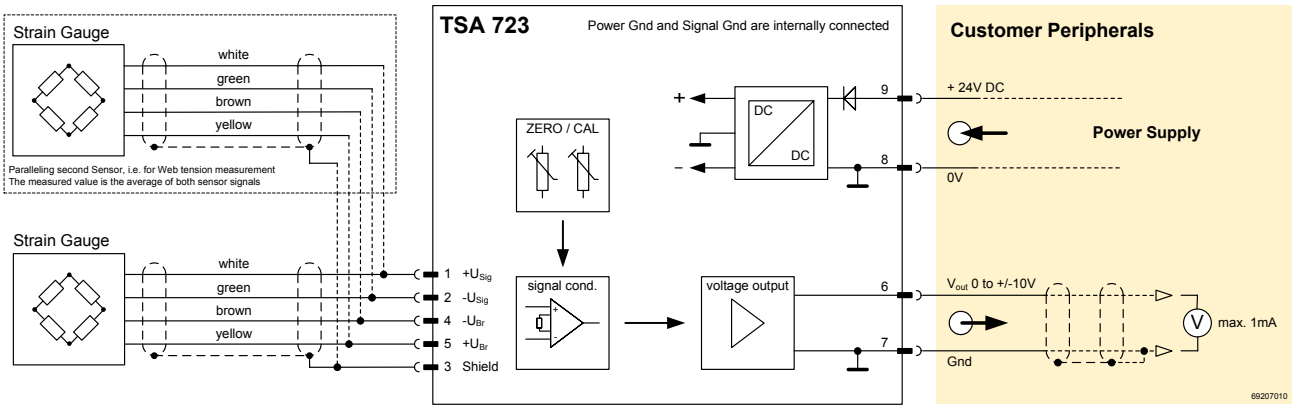
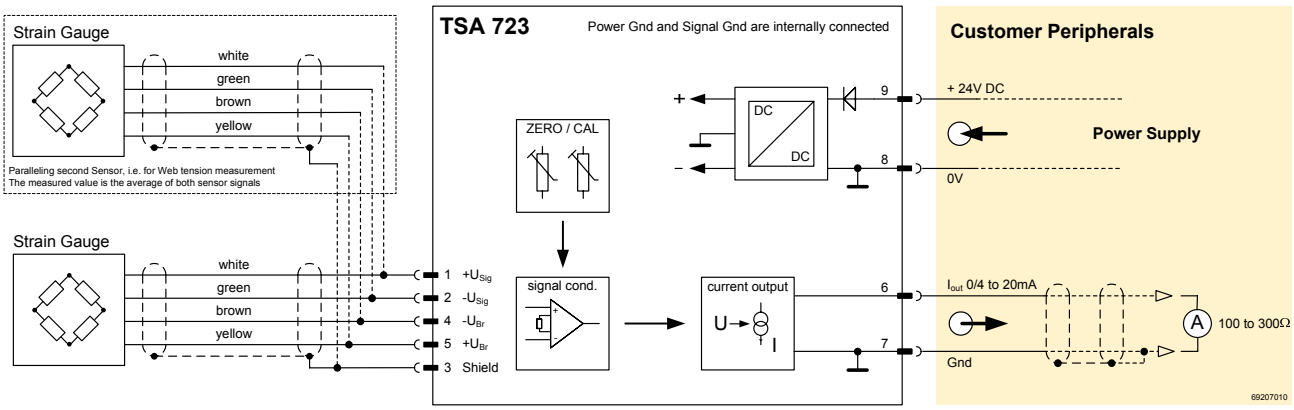
Block diagram

Voltage output 0-10V



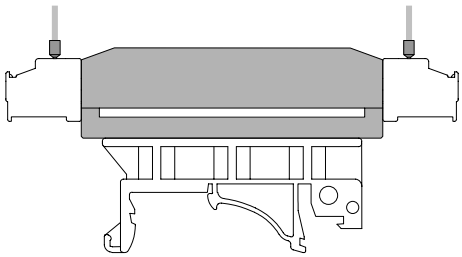
Current output 0-20mA or 4-20mA



Further connection types

on request

Sensor Power / Out



on request

Sensor Power / Out