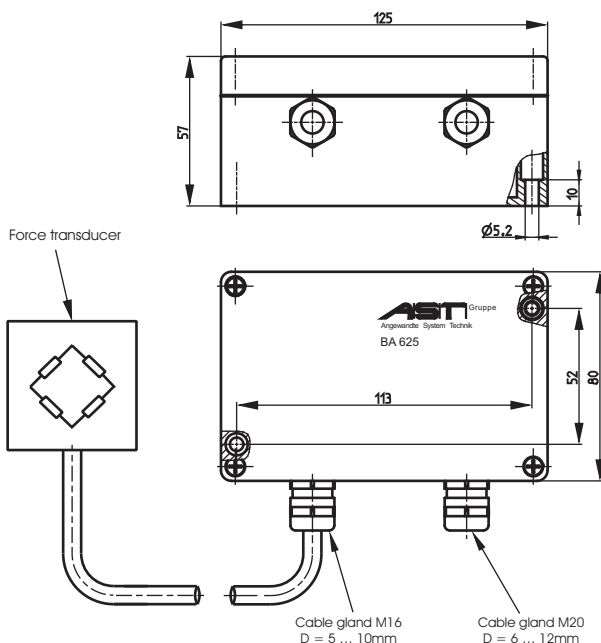


Strain Gauge Measuring Amplifier BA 625

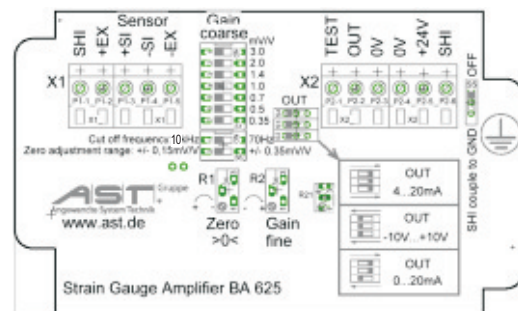
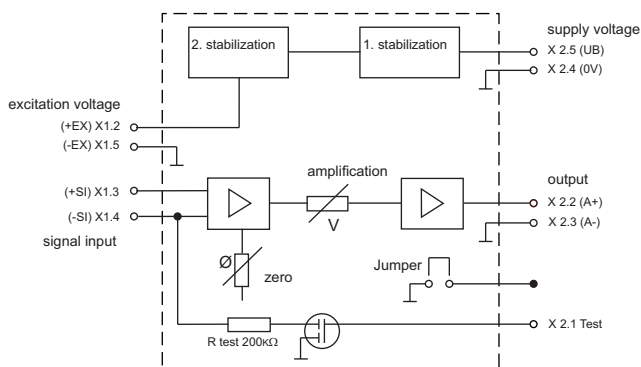
Special features

- Rugged die cast chassis
- Easy setting
- Input signal range 0,28mV/V ... 3,6 mV/V
- Power supply 24V
- Environmental protection IP65

Dimensions / Connections



Wiring diagram



Accessories / Options

	Type code	Description
Adjustment	XKE 801	Change the factory settings (amplification at 0,1% exactly)

Strain Gauge Measuring Amplifier BA 625

Specifications

Accuracy class	%	0,2
Input		
Input impedance range (+SI / -SI)		350Ω...1000Ω
Input signal range	mV/V	0,28 ... 3,6
Fine adjustment (input signal range)	%	approx. ±20
Excitation voltage (+EX / -EX)	VDC	10
Output	V	(-10 ... 0 ... +10) for $R_L \geq 10k\Omega$ or
Signal output (A+ / A-)	mA	0/4 ... +20 for $R_L \leq 250\Omega$
Zero adjustment range at 350 Ohm	mV/V	±0,35
Zero adjustment range at 700 Ohm	mV/V	±0,7
Limiting frequency (-3dB)	Hz	10 000 or 70 (DIL-switcher)
Temperature effect on zero at 2mV/V	%/10K	≤ 0,05
Temperature effect on zero at 1mV/V	%/10K	0,1
Temperature effect on amplification at 2mV/V	%/10K	≤ 0,07
Max. noise output: (-10 ... 0 ... +10)V	mV	≤ 10
Max. noise output: (0/4 ... 20)mA	μA	≤ 50
Test-signal input:		
- Bridge imbalance when $U_B = 24V$ connected to "test" signal input	mV/V	approx. +0,5 (for 350Ω full bridge)
Power supply (UB)		
Nominal voltage	VDC	24
Voltage range	VDC	19 ... 28
Current consumption	mA	approx. 35
Environmental conditions		
Operating temperature range	°C	- 25...+ 60
Storage temperature range	°C	- 40...+ 70
Construction		Aluminium die-cast
Dimensions (W x H x D)	mm	125x80 x57
Environmental protection according to EN 60529		IP 65
Cable diameter input	mm	5...10
Cable diameter output	mm	6..12
Cable cross section	mm²	0,14...2,5

Adjustment

Factory settings: 1mV / V, and 4...20 mA; 2kHz, Zero 4,00 mA. After changing the factory settings by the one of the switches (except for the cut off frequency), gain and zero need to be re-adjusted!

By connecting the test input with +24 V, a de-tuning of the strain gauge bridge by about 0.5 mV / V is generated. The value recorded in the load-free status can be recorded to verify the measuring system used.

Adjustment ranges input sensitivity in mV/V

Gain coarse switch	Min. (gain fine pot)	Max. (gain fine pot)
0,35	0,28	0,42
0,5	0,4	0,6
0,7	0,56	0,84
1	0,8	1,2
1,4	1,12	1,68
2	1,6	2,4
3	2,4	3,6

Type code

Type code	
BA 625	Strain Gauge Measuring Amplifier - flexible