



### Special features

- Voltage or current sensor excitation
- 4 or 6 wire connection
- For up to four 350-Ω transducers
- Adjustment via DIP switches and potentiometers
- Plastic enclosure for mounting on DIN rails

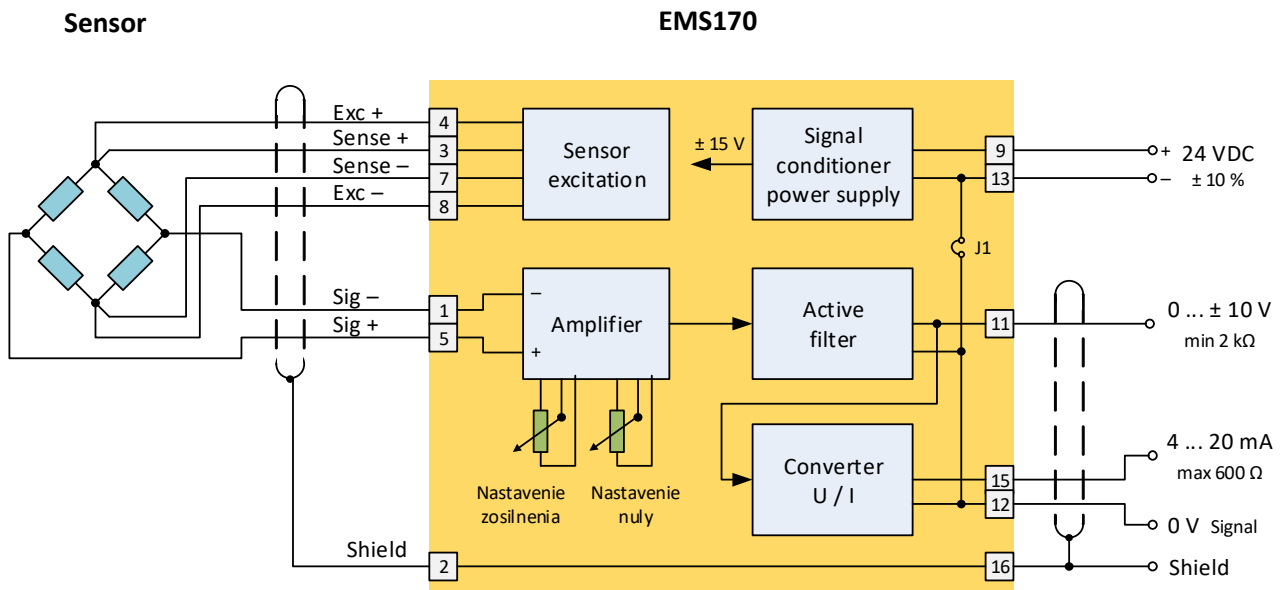
### Specifications

Accuracy class	0,1	% F.S.
Input (Strain gauge sensor sensitivity)	0,2 ... 4,5	mV/V
Sensor excitation		
– Voltage excitation	5 / 10	VDC
– Sensor min. impedance	80	Ω
– Current excitation	10 / 20	mA
– Sensor max. impedance	400	Ω
Voltage Output <sup>1</sup>		
– Range	± 10	V
– Min. load impedance	2	kΩ
Current output <sup>1</sup>		
– Range	4...20	mA
– Max. load impedance	600	Ω
Amplifier		
– Zero adjustment	0 ... ± 2,5	V
– Gain	440 ... 10000	V / V
– Input offset voltage drift	1	μV / °C
– Thermal sensitivity drift	100	ppm / °C
– Non-linearity	0,05	% F.S.
Active filter, 2nd order <sup>1</sup>		
– Corner frequency Low	4	Hz
– Corner frequency Middle	40	Hz
– Corner frequency High	400	Hz
Power supply		
– Range	24 ± 3	VDC
– Max. current consumption	200	mA
Temperature range		
– Operating	– 10 ... + 50	°C
– Storage	– 40 ... + 85	°C
Degree of protection	IP20	

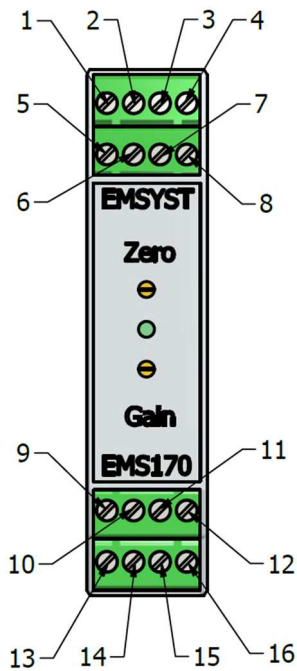
Notes:

<sup>1</sup> Contact the manufacturer for more options

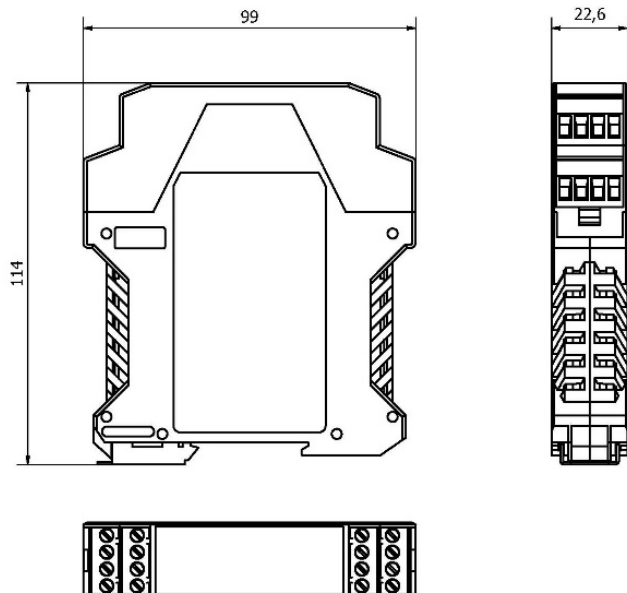
## Wiring diagram



## Clamps layout



## Outline dimensions (mm)



## Example of connection to the EMS100-2 kN force sensor

### Configuration

Load direction: compression and tension

Signal conditioner voltage output: 0 ...  $\pm 10$  V

Signal conditioner current output: 4 ... 20 mA

Link configuration: J1 = ON (without galvanic isolation)

DIP switch configuration:

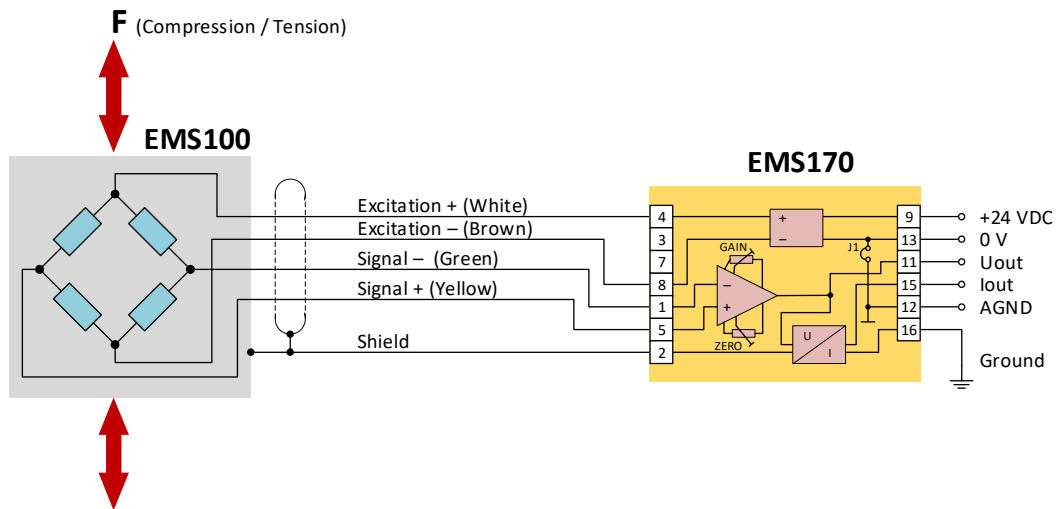
S1 - 4 = OFF (voltage sensor excitation)

S1 - 1 = OFF, S1 - 2 = OFF, S1 - 3 = OFF (sensor excitation = 10 V)

S2 - 1 = OFF, S2 - 2 = OFF (sensor sensitivity = 2 mV/V)

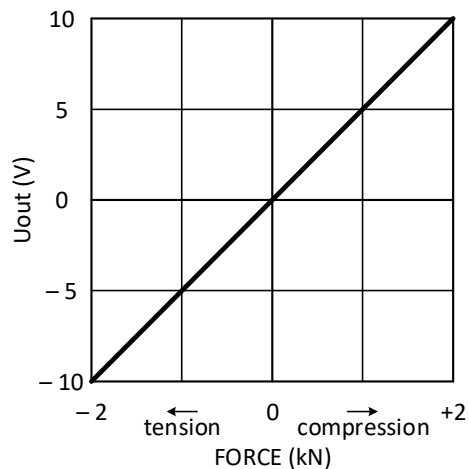
S3 - 1 = ON, S3 - 2 = ON, S3 - 3 = OFF, S3 - 4 = OFF (active filter corner frequency = 40 Hz)

### Wiring diagram



### Output characteristics

Voltage output



Current output

