The Point is Technology

EURO HÜBNER BENELUX B.V.

FMS

EMGZ 306A Series Tension Measuring Amplifier

No programming required
Easy to setup

Standardised analogue outputs
Multiconnectable with PLC, Display etc.

Galvanically isolated
Protected against electrical noise

DIN rail mount
Easy to mount in cabinet

Gain and offset setting by 20-turn trimmers
Precise adjustment guaranteed

EMGZ 306A Series

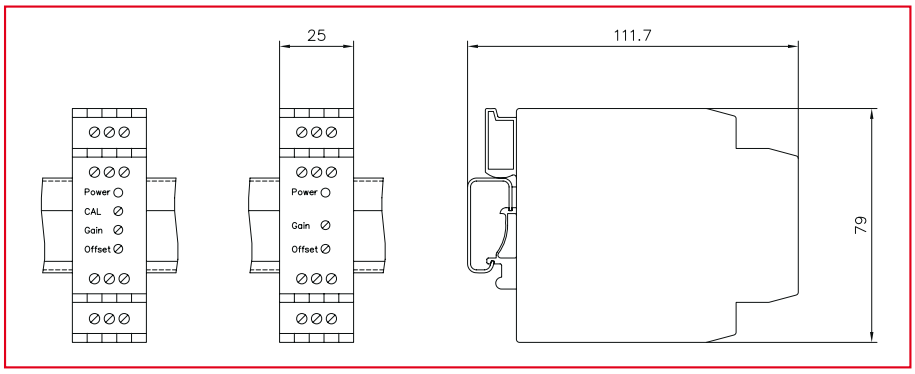
The EMGZ 306A Series is a single channel analogue tension measuring amplifier. There can be two force sensors connected. All settings are done with 20-turn trimmers which are easily accessible from the front. The amplifier outputs are standardized ± 10 V tension output and 0…20 mA or 4…20 mA current output (switchable by jumpers).

For filtering of the output signals capacitors can be added.
As options 10 VDC sensor supply voltage and compound-filled versions with additional vibration protection are available. The compound-filled version is used for rotating applications such as stranding machines, etc.

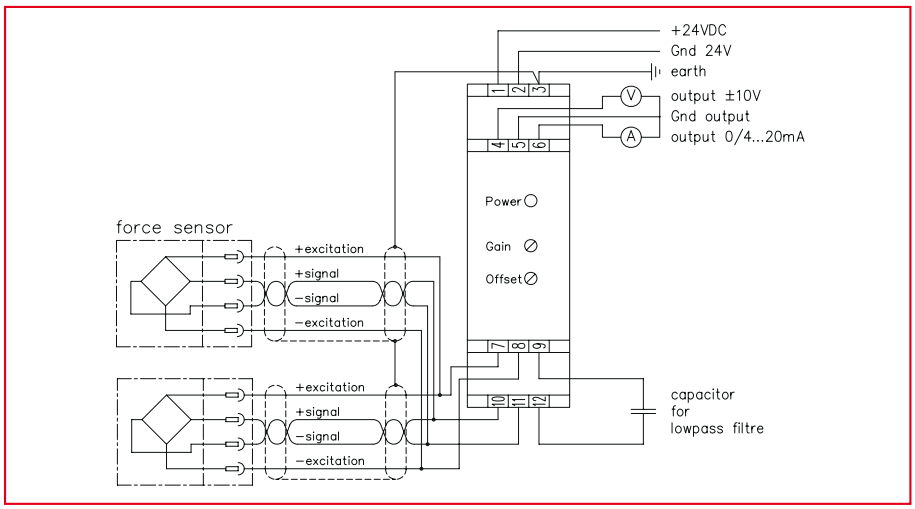
EMGZ 306A.CAL

This version provides a pushbutton to simulate 50 % of the nominal sensor load. This allows to do the calibration of the amplifier by calculation instead of physical simulation of the tension.

EMGZ 306A Series ● Dimensions in mm



EMGZ 306A Series ● Wiring diagram



EMGZ 306A Series ● Technical data

Sensor supply voltage	5 VDC 30 mA high precision (option 10 VDC)
Offset range	± 9 mV
Gain factor range	500...5000
Linearity error	< 0.1 %
Temperature drift offset	< 0.01 % / K
Tension output	± 10 V min. 1000 Ω
Current output	0/4...20 mA max. 500 Ω
Lowpass cut-off frequency	adjustable, ca. 1...1000 Hz
Power supply	24 VDC (18...36 VDC) max. 0.1 A, galvanically isolated
Power consumption	max. 2.5 W
Temperature range	– 10...+ 60 °C
Protection class	IP 20

Options:

- **CAL version**
- **10 VDC excitation voltage for force sensors (instead of 5 VDC)**
- **compound filled version**