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TRANSMITTER FOR FULL STRAIN GAUGE WEIGHING SCALES

with auxiliary power supply and active output

- measures and separates a signal from a resistive or semiconductor strain gauge bridge
- allows to measure both polarity input signal
- dielectric strength 4000Vef input - output - power supply
- auxiliary power supply 19-300V DC 90-250V AC
- DIN 35 rail design
- conversion accuracy <0.1%
- time constant approx. 100ms

The module is used to measure the strain gauge signal. The input signal converts to a 4..20mA, 0..20mA or 0..10V unified output signal. The bridge excitation voltage is 5VDC. Typical is the use of a module for measuring signals from tensiometers. The output from the converter is an active signal galvanically isolated from the input and from the auxiliary power supply.

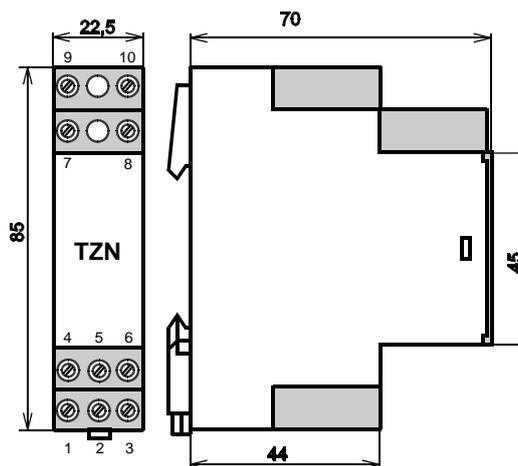
Operation resetting is enabled by briefly connecting the reset terminal (terminal 5 "NUL") to the negative pole of the field source (terminal 4 "EX-"). The output arrives at the nominal value corresponding to zero load. Adjustment of the measuring range is performed after the bridge load by the nominal weight. After briefly connecting the calibration terminal (terminal 6 "CAL") to terminal 4, the output is set to the nominal end value.



Electrical specifications:

- operating temperature range: -25 ... + 70 ° C
- storage temperature range: -40 ... + 80 ° C
- auxiliary power supply: 19-300VDC 90-250VAC
to order: 20 - 60VAC
max 1.5VA
- power consumption: 5V DC max. 20mA
- bridge excitation voltage (Ex): 5V DC max. 20mA
- 4-wire input signal
 - resistive bridge: ± 2,5...±25mV
 - semiconductor bridge: ± 25...±250mV
- output signal: 0..20mA, 4..20mA, 0..10V
- output loop amplitude: min. 15V (Rz = 750ohm) at 20mA
- voltage output load: max 10mA
- output current limitation: type. 30mA (Electronic Fuse)
- max transmission error: < 0.1%
- linearity error: < 0.1%
- temperature error: < 50ppm / ° C
- time constant: approx. 100ms
- enclosure / terminal rating: IP40 / IP20
- weight: 90g
- environment: degree of contamination 2
- test voltage insulation: 4000Vrms

Dimensions:



Type tests:

Basic type test: according to EN 60770-1 ed.2
EMC: according to EN 61326-1
Safety assessed: according to EN61010-1 ed.2

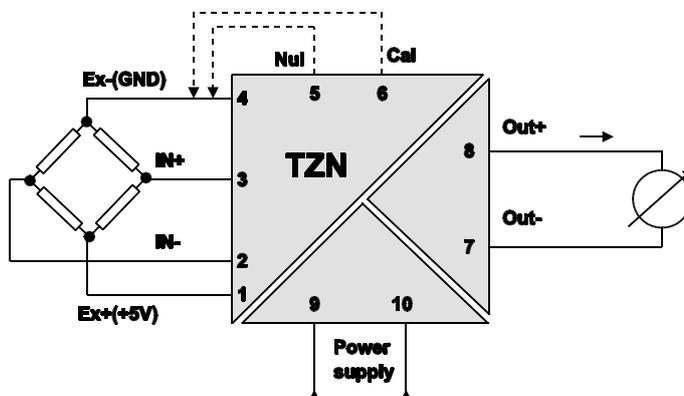
Construction:

Conductors up to 2.5mm² can be connected to the terminals. The transducers are mechanically mounted on a 35 mm DIN rail. After attaching the top edge with a screwdriver, the latch of the fastening mechanism is released and the device is pushed to the bottom with the bottom. Dismantling is carried out in the opposite way.

Ordering:

You must specify in your order:
- converter type
- input and output measuring range
- Quantity

Module wiring:



Likvidaci po ukončení životnosti provést odděleným sběrem.
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