Analogue amplifier, for top hat rail mounting

Standard Output: **0…10 VDC 3-wire**
Model EZE15X002001
or: **4…20mA 3-wire**
Model EZE15X002002

Description

The measurement amplifiers serve to condition the output signal from strain gauges to a display or a connected control system.

This design is available for terminal rail fitting in the control cubicle as specified in DIN EN 50 022. Any strain gauge force transducer driven with a direct current supply can be connected. The measuring range and, if required, a pre-load (Tara) can be calibrated on site. A check signal can be generated to check the analysis unit. Interference signals can be reduced with the input low pass filter.

The supply voltage of more than 10 up to 30 Volts guarantees a direct connection to an SPS control, since these generally have a 24 Volt supply voltage. The analogue output of 0..10 Volt or 0(4)..20 mA enable the signal to be processed directly in the SPS control system.

Features

- Standard output signal
  4 ... 20 mA or 0 ... 10 V
- Input filter for interference suppression
- Electrolytic isolation
- Can be directly connected to the PLC
- Compact construction
- Simple assembly on the top hat rail
  DIN EN 50 022

Applications

- Industrial weighing technology
- Force measurement in automation systems

Specific information

- 100% inspection
  (for force transducers with 100% resistance)

Model: EZE15X002001,
EZE15X002002

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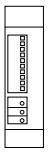
Technical Data

Construction	**Top hat rail mounting**	
Symbol		
Order No.	**EZE15X002001**	**EZE15X002002**
Output		
- Signal	0...10 VDC 3-wire technology	4...20 mA 3- wire
- Accuracy	0.02%	
- Burden	> 2 kΩ	< 500Ω
Input		
- Signal	3 ... 35 mV* (* 3 mV = minimal, still fully amplifiable input signal)	
- Resistor	10^9 Ω	
- Sensor supply	10 V DC, max. 90 mA (option: 5VDC, max. 60mA)	
- Limi frequency	1 kHz (3 dB)	750Hz (3 dB)
- Input filter	10 Hz bis1 kHz (einstellbar)	
Setting		
- Zero point	±10 %, continuously adjustable	
- Amplification	Rough and fine adjustment possible through DIP-switches and potentiometers	
- max. amplification	x 2000	
Power requirement	>10...30V DC	
Current consumption	< 150 mA	
Nominal temperature range	+10 .... + 40 °C	
Service temperature range	0 .. + 60 °C	
Storage temperature range	-10 .... + 70 °C	
Temperature effect		
- Zero point	0.02% / 10 K	0.04% / 10 K
- Measuring span	0.02% / 10 K	0.04% / 10 K
Noise emission	acc. to EN 61326	
Noise immunity	acc. to EN 61326	
Protection type (acc. to EN 60529/IEC 529)	IP 20	
Inspection	100 % (for force transducers with 100% resistance))	
Electrical connecton	Screw terminals (0.14 mm^2 to 1.5 mm^2)	
Housing	for top hat rails acc. to DIN EN 50 022	
- Material	Plastic	
- Dimensions (W x H x D)	23 x 111 x 76 mm	

Subject of technical changes