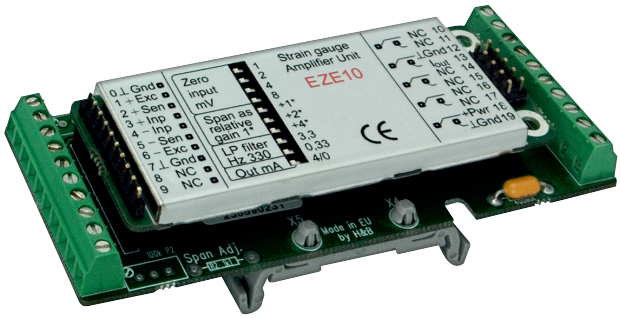
Analogue amplifier
PCB or DIN-rail mounting
Model EZE10

Applications

- Industrial weighing technology
- Machine building and plant construction
- Manufacturing automation

Special features

- Good linearity
- Voltage and current output
- Compact design
- Optional, continuous adjustment of zero point and full scale
- Optional with adapter board for DIN-rail mounting



Analogue amplifier, model EZE10

Description

The model EZE10 amplifier is used to adapt the output signal of strain gauge force transducers to digital displays or to a downstream controller.

Via the integrated connector strip, the amplifier can be plugged onto a printed circuit board. For mounting in a control cabinet, an optional adapter board for DIN-rail mounting in accordance with DIN EN 50022 is available. All strain gauge force transducers that can be operated with a DC voltage can be connected.

The measuring range and any existing preload (tare) can be adjusted locally via DIP switches. A finely trimmed signal is usually not necessary for PLCs. The supply voltage of DC 12 ... 24 V ensures the direct connection to PLCs.

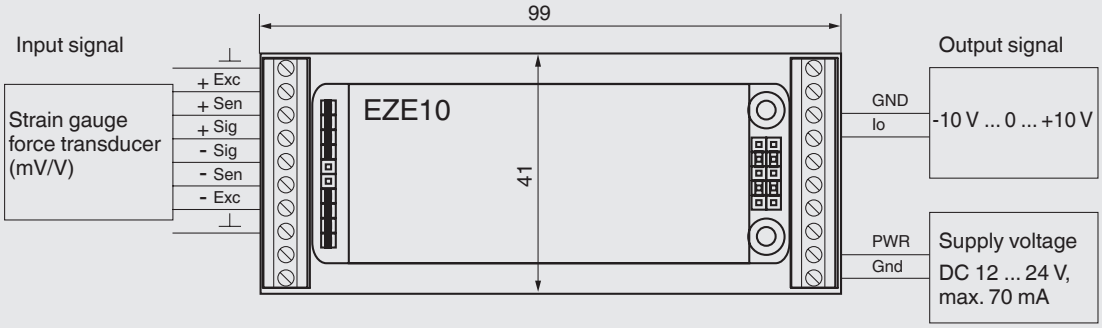
Optionally, the available adapter board can also be delivered with potentiometers for fine trimming. Interfering signals can be reduced with the low-pass filter on the input.

Specifications

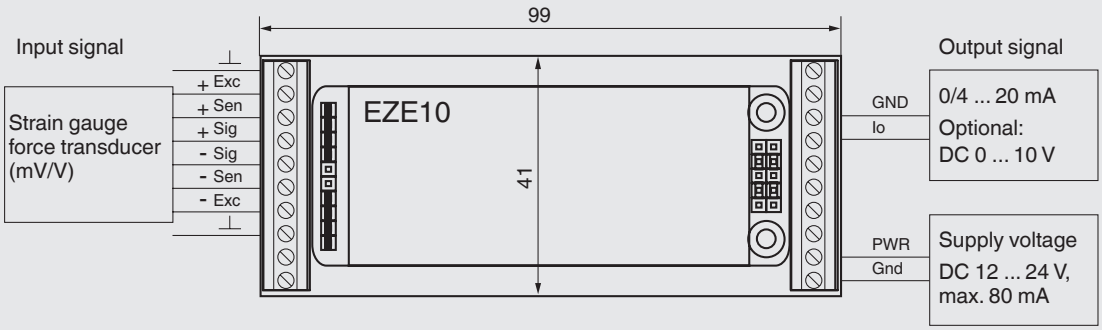
	Model EZE10X005	Model EZE10X006
Version	DC ±10 V	0/4 … 20 mA
Output signal	DC ±10 V, 3-wire	0/4 … 20 mA, 3-wire,
Option		DC 0 ... 10 V, 3-wire with adapter board and a factory attached 500 Ω shunt resistance
Load	> 500 Ω	≤ 500 Ω
Input signal	Resistance thermometry bridge, 4- or 6-wire	
Bridge resistance	200 … 2,000 Ω	250 … 2,000 Ω
Measuring range	-3.2 … +3.2 mV/V	-0.2 … +2.3 mV/V
Sensor supply	DC 10 V, max. 50 mA	DC 10 V, max. 40 mA
Linearity	< 0.01 %	
Setting	Setting possible via DIP switches	
Option	Ability for continuous adjustment with the adapter board	
Zero point	-0.7 … +0.7 mV/V in 1-mV/V increments	0 … 1.5 mV/V in 0.1-mV/V increments
Selectable full scales	■ 3.20 mV/V ■ 2.80 mV/V ■ 2.40 mV/V ■ 2.00 mV/V ■ 1.60 mV/V ■ 1.20 mV/V ■ 0.80 mV/V ■ 0.40 mV/V	■ 2.00 mV/V ■ 1.00 mV/V ■ 0.67 mV/V ■ 0.50 mV/V ■ 0.40 mV/V ■ 0.33 mV/V ■ 0.29 mV/V ■ 0.25 mV/V
Temperature effect on the characteristic value TK_c	0.05 % / 10 K	
Temperature effect on the zero signal TK_0	0.05 % / 10 K	
Rated temperature range	-10 ... +40 °C	
Storage temperature range	-20 ... +50 °C	
Supply voltage	DC 12 ... 24 V	
Current supply	max. 70 mA	max. 80 mA
Limit frequency	selectable via DIP switches	
	-	0.3 Hz
	3.3 Hz	3.3 Hz
	33 Hz	33 Hz
	330 Hz	-
	3,300 Hz	-
Ingress protection	IP40	
Option	IP65 with additional case	
Weight	approx. 26 g approx. 50 g incl. adapter board	

Dimensions in mm

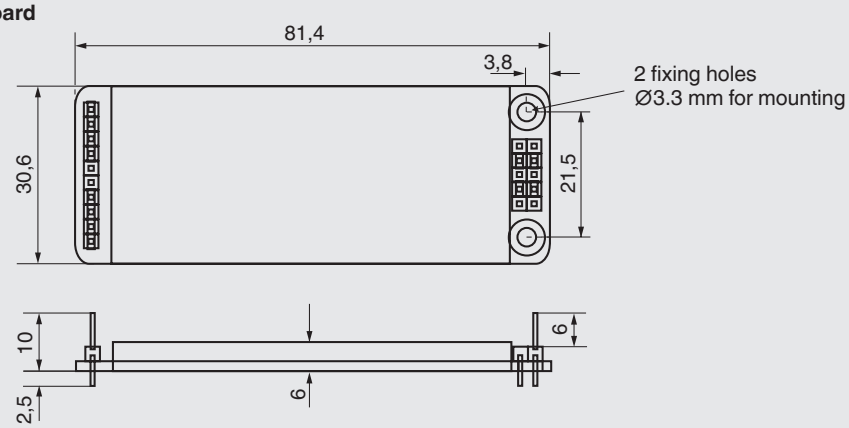
EZE10X005 amplifier with optional adapter board



EZE10X006 amplifier with optional adapter board



Amplifier without adapter board



Ordering information

Designation	Order number		
	DC -10 ... +10 V	DC 0 ... +10 V	4 ... 20 mA
Printed circuit board mounting	79101483	---	14255088
DIN rail mounting	---	---	14255089
DIN rail mounting with trimming potentiometers for fine adjustment of zero point and gain	14260204	14293481	14255090

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