Cable Amplifier CA

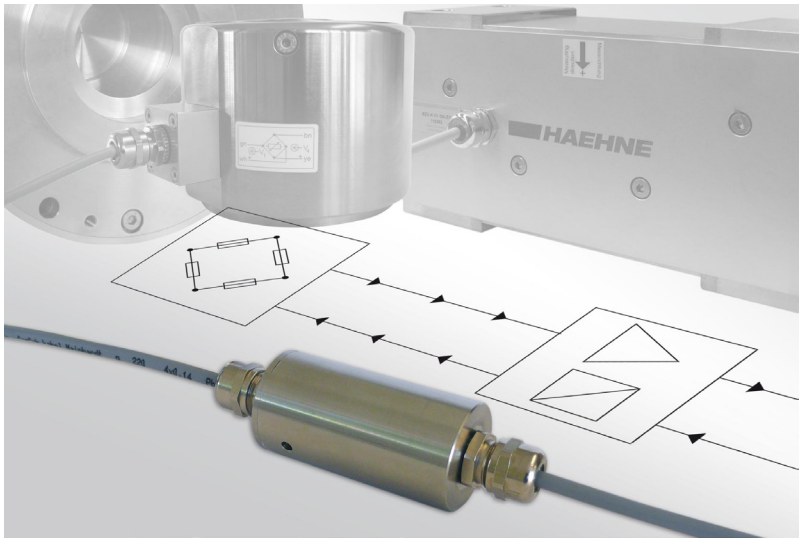
Scope of Supply

Amplifier in stainless steel housing with 4 m signal cable and 1 m sensor cable, incl. fastening clamp

Factory-provided connected to the respective sensor

Variants

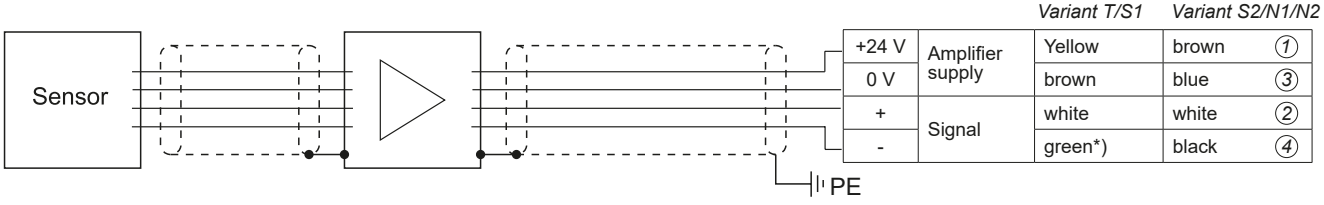
- **AU:** 1 voltage output ± 10 V
- **AC:** 1 current output 4…20 mA



Special Features

- Minimum space requirement
- Very good EMC characteristics
- Minimal amount of cabling

The in-line cable strain gauge amplifier supplies standardized current signals for direct use in machinery and equipment without additional external components. The location of the amplifier in close proximity to the sensor reduces noise interference and results in better signal amplification and transmission of the current output. Practically all HAEHNE sensors can be powered with this cable amplifier.



		Variant T/S1	*Variant S2/N1/N2*
+24 V	Amplifier supply	Yellow	brown ①
0 V		brown	blue ③
+	Signal	white	white ②
-		green*)	black ④

*) With CA-AU this line does not exist. The reference potential of the signal is 0 V of the amplifier supply.

Ordering data:

CA-AU	Amplifier with voltage output
CA-AC	Amplifier with current output

Select „voltage version“ for sensors with negative preload

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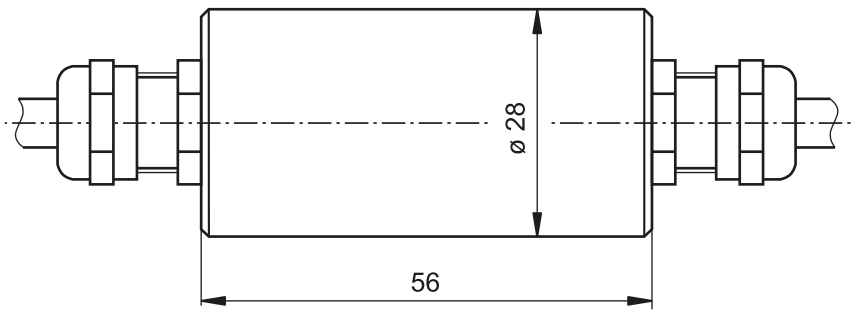
Technical Data		
Auxiliary power	Voltage	24 V DC, 14 ...27 V
	Typical current requirements with standard wiring	Approx. 8 mA + strain gauge excitation supply
Signal output	CA-AU	Voltage ± 10 V
		Min. load resistance 5 kΩ
	CA-AC	Current 4...20 mA
		Max. load resistance 1 kΩ
	Band width	0 ...1 kHz
	Signal rising time	< 1 ms
Linearity deviation		< 0,02 % from final value
Temperature drift	Zero point	typ. 9 ppm / °C max. 25 ppm / °C
	Amplification	typ. 25 ppm / °C max. 64 ppm / °C
Temperature range		- 40...85° C
Standard enclosure protection		IP 67

Analog Input		
Strain gauge excitation supply	Voltage (V_4)	5 V DC; 4,9 ...5,1 V
Resistance of strain gauge bridge	CA-AU	1000 ... 5000 Ω
	CA-AC	350 ... 5000 Ω
Nominal rating		Manufaturer adjustment range 0,5…150 mV/V Factory calibrated to the connected sensor



When mounting the amplifier to grounded machine parts:
A potential equalization cable with sufficient cross section has to be provided.

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