

IO-Link Amplifier CA-IO

Scope of Supply

Electronic unit in stainless steel housing

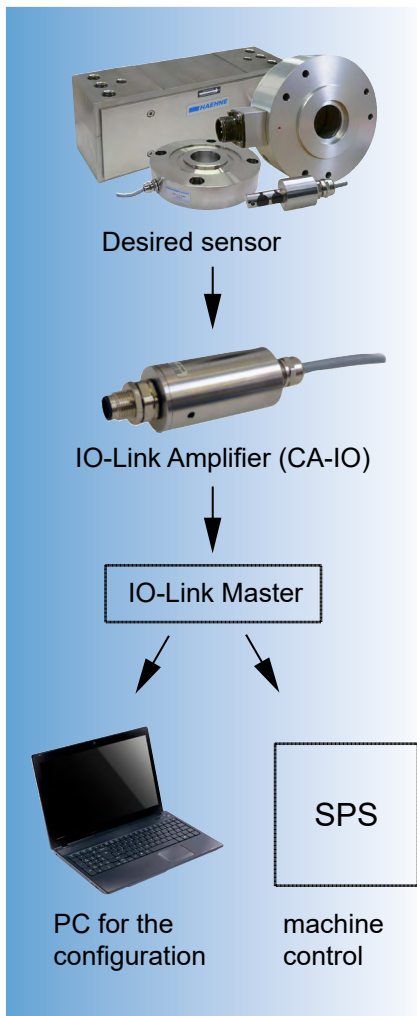
- sensor cable fix connected to the respective sensor (standard 1 m)
- Mounting clamp

Additionally Available

- Assembled IO-Link standard cable with M12 cable plug and socket in 5, 10 or 15 m length



Simplest connection



Special Features

- 24 bit Σ - Δ -AD converter for highest precision
- Very fast cycle time for time-critical applications
- Simple and fast tool parameterization via PLC / PC
- Comprehensive diagnostics during operation, such as limit monitoring or peak storage
- Bidirectional point-to-point communication standard according to IEC 61131-9

The CA-IO cable amplifier is used where sensors with resistance full bridges (strain gauge force transducers) are to be connected to IO-Link. When the measuring system is delivered, the IO-Link amplifier is set to the connected *HAEHNE* sensor. The sensor parameters are stored in the measuring amplifier.

Due to the fixed connection of the *HAEHNE* sensor to the measuring amplifier, further information such as type designation and standardization of the sensor are also directly transferred to the IO-Link master.

The cable amplifier is connected between the sensor and the IO-Link master, so that no separate power supply is necessary. The sensor signals are converted into digital signals with a cycle time of 1 ms, averaged and provided to the interface circuit.

The CA-IO supports bidirectional communication of the IO-Link specification so that the higher-level controller can transmit parameter settings and settings to the amplifier during operation, which in particular significantly simplifies installation and commissioning.

Even during production and maintenance, the *HAEHNE* IO-Link interface offers many advantages, such as comprehensive diagnostics options and detailed information with regard to possible troubleshooting, maintenance or replacement of the devices.

Ordering Example

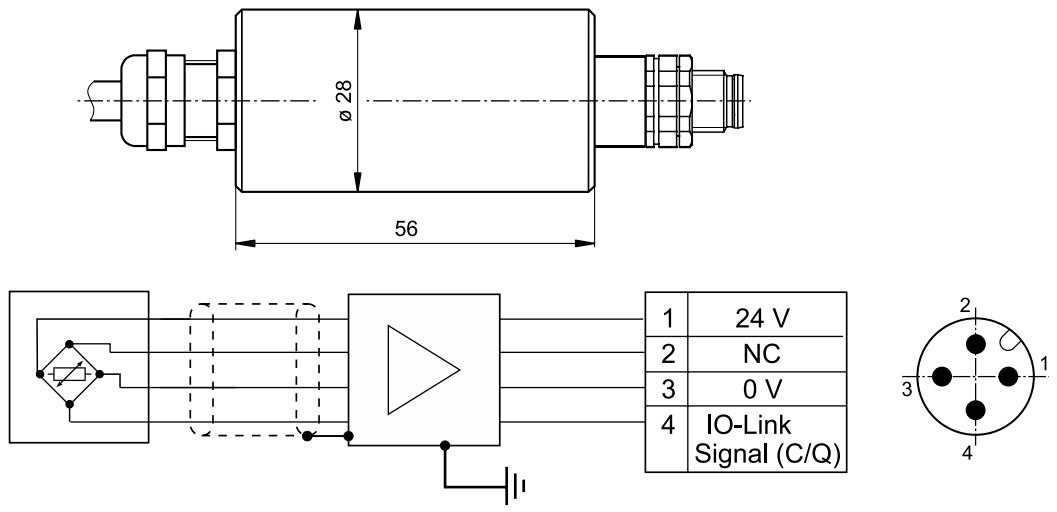
CA-IO + desired sensor

Technical Data

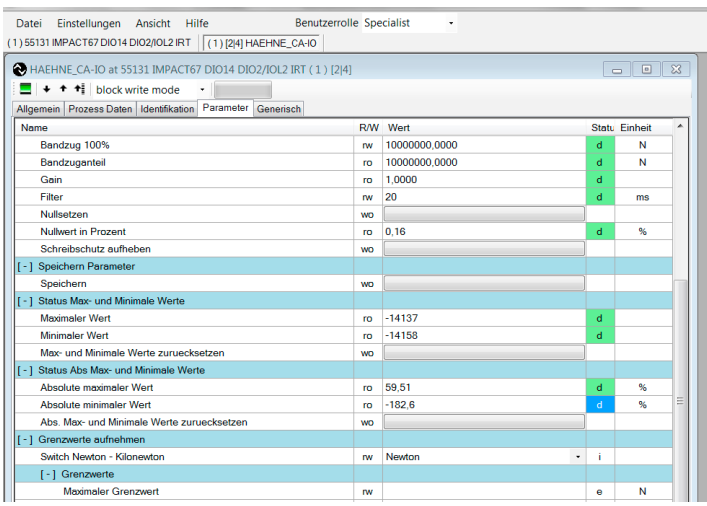
Power supply	Voltage	24 V DC, 18 V...30 V
	Typical current requirements with standard wiring	approx. 20 mA
Strain gauge excitation voltage	Voltage (V ₄)	2,5 V
Signal		-160 % ...0 ... +160 % $\hat{=}$ 8000...0000...7FFF
Sampling rate		1 ms
Resolution		16 Bit
Data width		1 word
Temperature range		0...+60° C
Protection class		IP67

IO-Link specification

IO-Link revision	1.1
Transmission type	COM2 / 38,4 kBit/s
Min. Cycle time	3 ms
SIO Mode	No
Required master port class	A



Parameterization via Device Tool



When mounting the amplifier, equipotential bonding with a sufficient cross-section must be established.