HAEHNE

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



Ordering Example

CA-IO + desired sensor



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.

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CA-IO

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Technical Data

Power supply	Voltage	24 V DC, 18 V30 V				
	Typical current requirements with standard wiring	approx. 20 mA				
Strain gauge excitation voltage	Voltage (V ₄)	2,5 V				
Signal	-160 % …0 … +160 % [≙] 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		А				





Parameterization via Device Tool

Datei Einstellungen Ansicht Hilfe Benutzerr (1) 55131 IMPACT67 DIO14 DIO2/IOL2 IRT [1) [2]4] HAEHNE_CA-IO	olle Spe	cialist -			
HAEHNE_CA-IO at 55131 IMPACT67 DI014 DI02/IOL2 IRT (1) [2 Image: Image	4]				x
Allgemein Prozess Daten Identifikation Parameter Generisch					
Name	R/W	Wert	Statu	Einheit	
Bandzug 100%	rw	1000000,0000	d	N	
Bandzuganteil	ro	1000000,0000	d	N	
Gain	ro	1,0000	d		
Filter	rw	20	d	ms	
Nullsetzen	wo				
Nullwert in Prozent	ro	0,16	d	%	
Schreibschutz aufheben	wo				
[-] Speichern Parameter					
Speichern	wo				
[-] Status Max- und Minimale Werte					
Maximaler Wert	ro	-14137	d		
Minimaler Wert	ro	-14158	d		
Max- und Minimale Werte zuruecksetzen	wo				
[-] Status Abs Max- und Minimale Werte					
Absolute maximaler Wert	ro	59,51	d	%	
Absolute minimaler Wert	ro	-182,6	d	%	=
Abs. Max- und Minimale Werte zuruecksetzen	wo				
[-] Grenzwerte aufnehmen					
Switch Newton - Kilonewton	rw	Newton ·	i.		
[-] Grenzwerte					
Maximaler Grenzwert	rw		е	N	

When mounting the amplifier, equipotential bonding with a sufficient crosssection must be established.

CA-IO PB EN 04_20

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