1. Product Description

1.1 Order designation

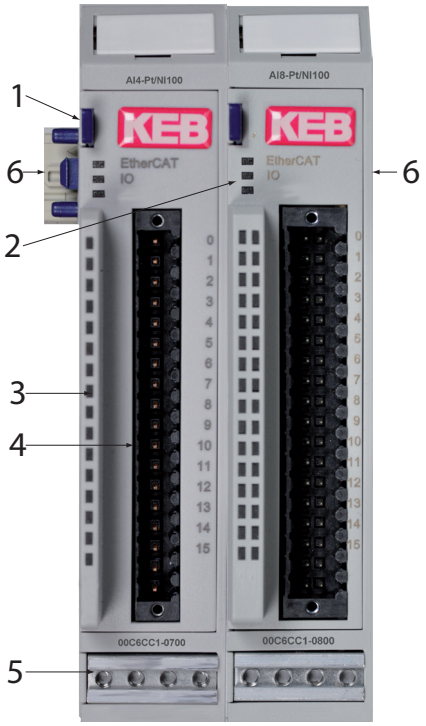
Description	Material number
EtherCAT AI4 (PT/NI-100 / 16 Bit)	00C6CC1-0700
EtherCAT AI8 (PT/NI-100 / 16 Bit)	00C6CC1-0800
EtherCAT AI4 (PT/NI-1000 / 16 Bit)	00C6CC1-0900
EtherCAT AI8 (PT/NI-1000 / 16 Bit)	00C6CC1-1000
Plug 18-pole for in-/outputs (accessories)	0090501-7121
Plug 36-pole for in-/outputs (accessories)	0090501-7119
Grounding assembly 2x8 mm (accessories)	00C6CD1-0400
Grounding assembly 14 mm (accessories)	00C6CD1-0500

1.2 Application

Dependent on the material number above the module has 4 or 8 analog inputs for the connection of temperature sensors of type PT/NI-100 or PT/NI-1000.

1.3 Description of the modules

Picture 1.3 Front view of the analog input modules



1.	Release lever		
2.	Status-LED's module		
	EtherCAT-LED	Flash code	Description
		red - constant	Initialisation (Init), no data exchange
		red/green 1:1	Ready for operation (Pre-Op), no data exchange
		red/green 3:1	Safe operation (Safe-Op), inputs are readable
		green - constant	Normal operation (Op), full data exchange
	I/O-LED	green - constant	OK, no error available
		off	Module defective, if EtherCAT-LED is activated
			no function, if EtherCAT-LED = off
		Red, 3 x	Watchdog internal
		Red, 4 x	Response monitoring EtherCAT
		Red, 6 x	Module-specific error
		Red, 7 x	Configuration error (EtherCAT-LED in Pre-Op state), number of process data different to the module
		red - constant	Module defective
3.	Channel-LED's	green constant	Channel is active
		off	Channel is deactivated
		red	Short-circuit, wire breakage
4.	Connection IO (see plug chapter 1.1)		
5.	Earth-/shield connection for bolt M3x5		

further on next side

6.	E-Bus / module locking
	Use shielded cables for the analog line and fit the shield on to the purposed place.
	Connect the DIN mounting rail or the earthing connection with functional earth.

1.4 Technical data

Fieldbus	EtherCAT 100 Mbit/s
WxHxD	25x120x90 mm
Assembling	35 mm DIN mounting rail
Controller	ASIC ET1200
Connection E-bus	10-pole system connector in side panel
End module	not necessary
Voltage supply	from the EtherCAT coupler by the E-Bus connector
E-Bus load AI4	150 mA
E-Bus load AI8	170 mA
Potential separation	Modules each other and against the bus
Storage temperature	-25 °C…+70 °C
Operation temperature	0 °C…+55 °C
Relative humidity	5 %...95 % without condensation
Degree of protection	IP20
Noise immunity	Zone B

AI4-Pt/Ni100	
Analog inputs	4
Resolution	16 Bit
Measuring range Pt100	-75 °C…+670 °C
Measuring range Ni100	-60 °C…+250 °C
Measuring range resistance	70…330 Ω
Transformation frequency	7.75 Hz (4 channels)

AI8-Pt/Ni100	
Analog inputs	8
Resolution	16 Bit
Measuring range Pt100	-75 °C…+670 °C
Measuring range Ni100	-60 °C…+250 °C
Measuring range resistance	70…330 Ω
Transformation frequency	3.88 Hz (8 channels)

AI4-Pt/Ni1000	
Analog inputs	4
Resolution	16 Bit
Measuring range Pt1000	-75 °C…+570 °C
Measuring range Ni1000	-60 °C…+250 °C
Measuring range resistance	700 Ω…3000 Ω

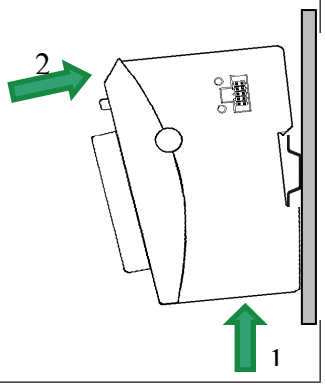
Transformation frequency	7.75 Hz (4 channels)

AI8-Pt/Ni1000	
Analog inputs	8
Resolution	16 Bit
Measuring range Pt1000	-75 °C…+570 °C
Measuring range Ni1000	-60 °C…+250 °C
Measuring range resistance	700 Ω…3000 Ω
Transformation frequency	3.88 Hz (8 channels)

1.5 Assembling

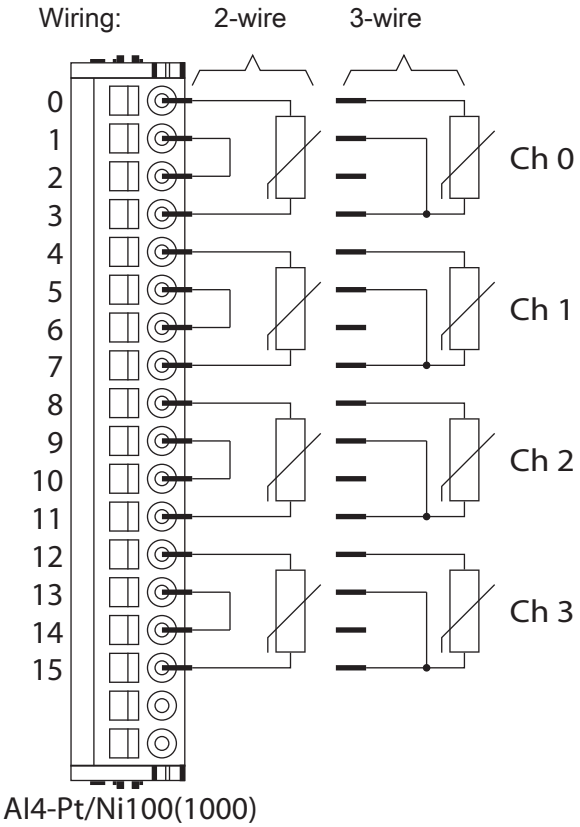
Picture 1.5 Mounting of the bus coupler

1.	Put the module in accordance with the picture from downside against the mounting rail that the metal spring is impressed between mounting rail and mounting surface.
2.	Press the module against the mounting panel above until it is snapped-in.

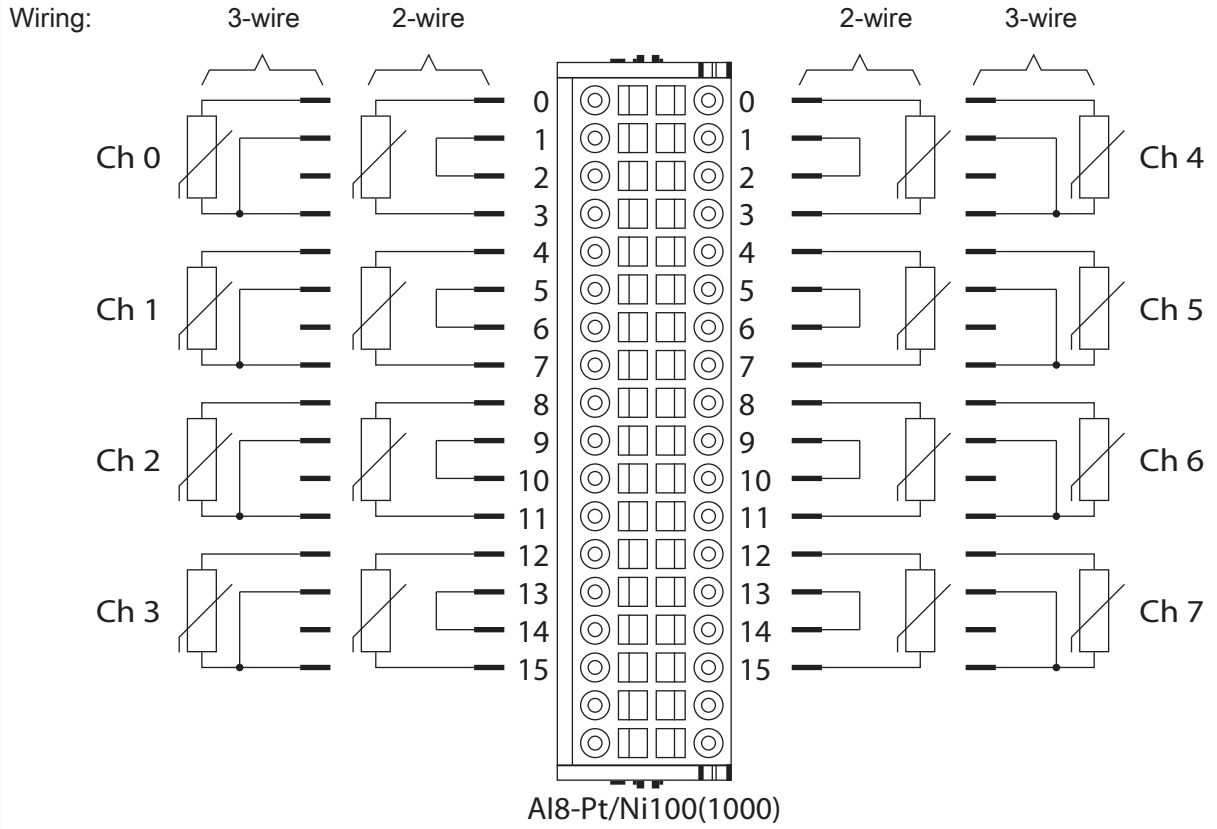


1.6 Connection of the analog inputs

Connection of the AI 4



Connection of the AI 8



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