

1. Product Description

1.1 Order designation

Description	Material number
EtherCAT AO 4 (0-20 mA / 0-10 V / 12 Bit)	00C6CC1-0500
EtherCAT AO 4 (0-20 mA / 0-10 V / 16 Bit)	00C6CC1-0600
Plug 18-pole for in-/outputs (accessories)	0090501-7121
Grounding assembly 2x8 mm (accessories)	00C6CD1-0400
Grounding assembly 14 mm (accessories)	00C6CD1-0500

1.2 Application



Output of current or voltage signal via four analog outputs.

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
	I/O-LED	green - constant		Normal operation (Op), full data exchange
		green - constant		OK, no error available
		off		Module defective, if EtherCAT-LED is activated
		off		no function, if EtherCAT-LED = off
		Red, 3 x		Watchdog internal
		Red, 4 x		Response monitoring Ether-CAT
		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
		Power-LED		green constant
	Power-LED	off		24 Vdc not available
3.	Channel-LED's	green constant		Channel is active
		off		Channel is deactivated
		red, 1x		Short-circuit
		red, 3x	Wire breakage	
		red, 5x	Overtemperature of the output driver	
4.	Connection IO (see plug chapter 1.1)			
5.	Earth-/shield connection for bolt M3x5			

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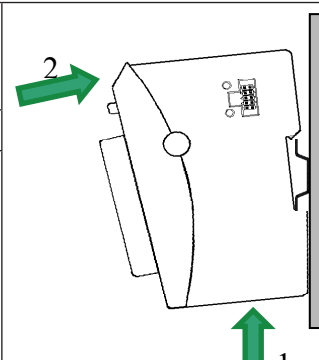
6.	24 VDC Module supply
7.	E-Bus / module locking
	Use shielded cables for the analog line and fit the shield on to the purposed place.
	Connect the DIN mounting rail or the earthing connection with functional earth.

1.4 Technical data

Fieldbus	EtherCAT 100 Mbit/s
WxHxD	25x120x90 mm
Assembling	35mm 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	150mA
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
AO4-U/I	
Analog outputs	4
Resolution	12 Bit / 16 Bit
Output signal	0...10V, ±10V, 0...20mA, ±20mA
Output frequency	3.125 kHz (constant)

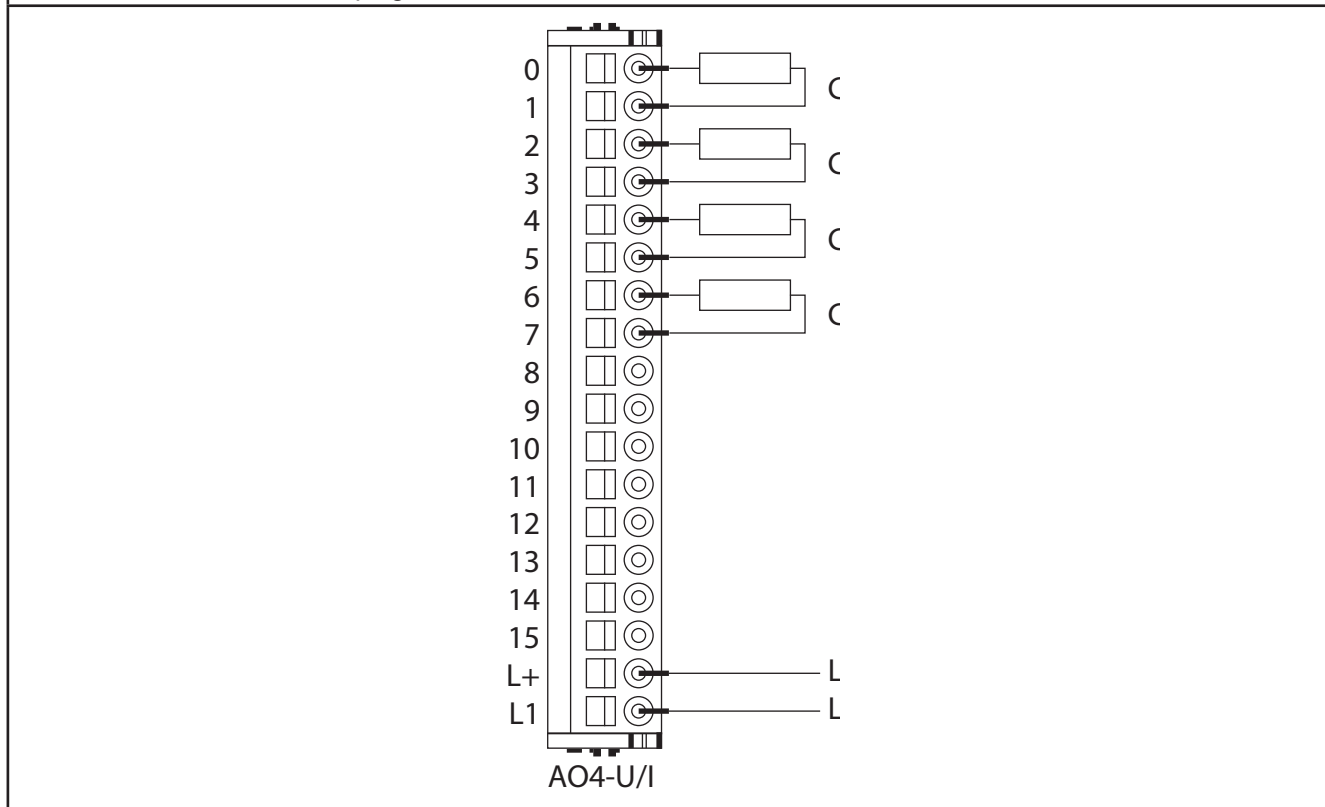
1.5 Assembling

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 AO4-U/I with plug 0090501-7121



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