



Features

- ✓ Configuration by means of GSDML and ESI file in the engineering tool of the respective PLC
- ✓ No further software necessary.
- ✓ Automatic module configuration on the EtherCAT side possible
- ✓ Up to 600 byte input & 600 byte output data
- ✓ 100 slots for IO data
- ✓ Redundant power supply
- ✓ Galvanic isolation of the networks
- ✓ Diagnostics web page

PROFINET Coupler, EtherCAT

Machines and systems can be linked with fieldbus couplers. This makes data exchange between different control worlds possible. A complex CPU-to-CPU communication can be omitted. Depending on the fieldbus, the integration takes place via device description files such as GSD, GSDML or EDS.

With the PN/EtherCAT Coupler a simple and uncomplicated connection of a PROFINET machine to an EtherCAT machine is possible. The PN/EtherCAT Coupler allows the data transfer between a PROFINET controller and an EtherCAT master.

Received output data on one of the network sides are made available to the PLC on the other network side as input data. The cyclic I/O data exchange comprises a maximum of 600 bytes per direction and takes place as fast as possible without any handling blocks.

The configuration of the coupler and the compilation of the I/O data is carried out for both network sides in the engineering tool of the respective PLC (e.g. TIA Portal from Siemens, CODESYS from the CODESYS Group or TwinCAT from Beckhoff). Additional configuration software is not required.

To integrate the coupler into the respective engineering tool, a GSDML file is provided for the PROFINET side and an ESI file for the EtherCAT side. For the configuration of the I/O data to be transferred, the coupler provides 100 slots and a large number of I/O modules with different data types and sizes. Usually it is sufficient to perform and commission this I/O configuration manually for the PROFINET side only, since the common engineering tools of the EtherCAT side allow reading in and accepting the current I/O configuration of the coupler.

General information

Order number	700-162-3EC02
Article name	PN/EtherCAT Coupler
Scope of delivery	PN/EtherCAT Coupler with power plug
Dimensions (DxWxH)	32.5 x 58.5 x 76 mm
Weight	Approx. 135 g

PROFINET interface (X1)

Number	1
Connection	2 x RJ45, integrated switch
Protocol	PROFINET IO as defined in IEC 61158-6-10
Transmission rate	100 Mbps full duplex
I/O image size	max. 600 bytes of input and output data
Features	Media redundancy (MRP),
	automatic addressing,
	topology detection (LLDP, DCP),
	diagnosis alarms
	PROFINET conformance class B (in preparation)

EtherCAT interface (X2)

Number	1
Connection	2x RJ45 IN/OUT
Protocol	EtherCAT as of IEC 61158-x-12
Transmission rate	100 Mbps
Features	Automatic process data configuration
	Support of 'CANopen over EtherCAT' (CoE)
	Object dictionary according to 'Modular Device Profile' (MDP)
	Support of 'SDO Info' and 'Complete Access'

Status indicator

Function status	9 LEDs
Ethernet status	6 LEDs

Power supply

Operating voltage	24 V DC (18 - 28 V DC)
Current draw	max. 180 mA

Power dissipation	max. 4.7 W
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Ambient conditions

Ambient temperature	0 °C to 60 °C
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Transport and storage temperature	-20 °C to 80 °C
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Relative air humidity	95 % r H without condensation
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Protection rating	IP 20
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Mounting position	as desired
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Approvals	CE
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Änderungen und Irrtümer vorbehalten