



Features

- ✓ Very compact design for DIN rail mounting
- ✓ Exchange of up to 244 bytes I/O data
- ✓ Redundant power supply
- ✓ Galvanic separation of the networks
- ✓ No influencing of the opposite side in the event of bus system failure
- ✓ Setting of the PROFIBUS addresses using DIP switches or software
- ✓ Configuration just with GSD/GSDML file

PROFINET Coupler DP / PN

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 new DP/PN Coupler, a simple and uncomplicated connection of PROFIBUS to PROFINET is possible. It allows data transfer between a PROFIBUS master and a PROFINET controller. The maximum size of the transmitted data is 244 bytes of input data and 244 bytes of output data. The DP/PN Coupler

is projected via a GSD file on the PROFIBUS side and a GSDML file on the PROFINET side. No additional configuration software is necessary.

General information

Order number	700-158-3DP02
Article name	DP/PN Coupler
Scope of delivery	DP/PN Coupler with power supply plug
Dimensions (DxWxH)	32.5 x 58.5 x 76 mm
Weight	approx. 135 g

PROFINET interface (X1)

Number	1
Connection	2x RJ45, integrated switch
Protocol	PROFINET IO Device as defined in IEC 61158-6-10
Transmission rate	100 Mbps full duplex

Features

Media Redundancy Protocol (MRP)
automatic addressing
topology detection (LLDP, DCP)
diagnosis alarm
PROFINET conformance class B

PROFIBUS interface

Protocol	PROFIBUS-DP
Connection	9-pin D-sub female connector
Transmission rate	max. 12 Mbps, autom. detection
I/O image size	max. 244 bytes of input / 244 bytes of output data

Status indicator

Function status	9 LEDs
Ethernet status	4 LEDs

Relative air humidity	95 % r H without condensation
Protection rating	IP 20
Mounting position	as desired
Approvals	CE, UL

Power supply

Operating voltage	24 V DC (18 ... 28 V DC)
Current draw	max. 160 mA
Power dissipation	max. 3.9 W

UL

UL	UL 61010-1 / UL 61010-2-201
Voltage supply	DC 24 V (18 ... 28 VDC, SELV and limited energy circuit)
Pollution degree	2
Altitude	Up to 2000m
Temperature cable rating	87 °C

Ambient conditions

Ambient temperature	0 °C to 60 °C
Transport and storage temperature	-20 °C to 80 °C