

PNOZplus - CANopen Interface Module PCANop



CANopen interface module for PNOZplus safety relays

Features

- Supports CANopen Communication Profile (CiA DS 301, V3.0) and CAN Physical Layer (CiA DS 102, V2.0)
- Minimum capability device
- Device start in accordance with Minimum Boot-Up (defined by CANopen)
- Supports NMT slave functions
- Node guarding
- Sync object
- Event-oriented communication
- Dynamic ID assignment
- Dynamic PDO mapping
- Non-volatile storage of mapping parameters
- 2 semiconductor outputs controlled via bus

Technical details	PCANop
Electrical data	
Supply voltage	24 VDC
Tolerance	85 ... 120 %
Power consumption	max. 0.7 W
Semiconductor outputs	24 V DC/1.8 A, short-circuit proof
External voltage supply	24 V DC \pm 20 %
Times	
Supply interruption before de-energisation	min. 20 ms
Response time	From event at PNOZ input terminal to signal at bus: max. 600 ms From message being received until message issued at semiconductor output: max. 1 ms
Environmental data	
Ambient temperature	0 ... +60 °C
Storage temperature	-25 ... +70 °C
Mechanical data	
Max. cross section of external conductor	1.5 mm ² Single-core or multi-core with crimp connector
Dimensions (H x W x D)	87 x 45 x 121 mm
Weight	240 g

Description

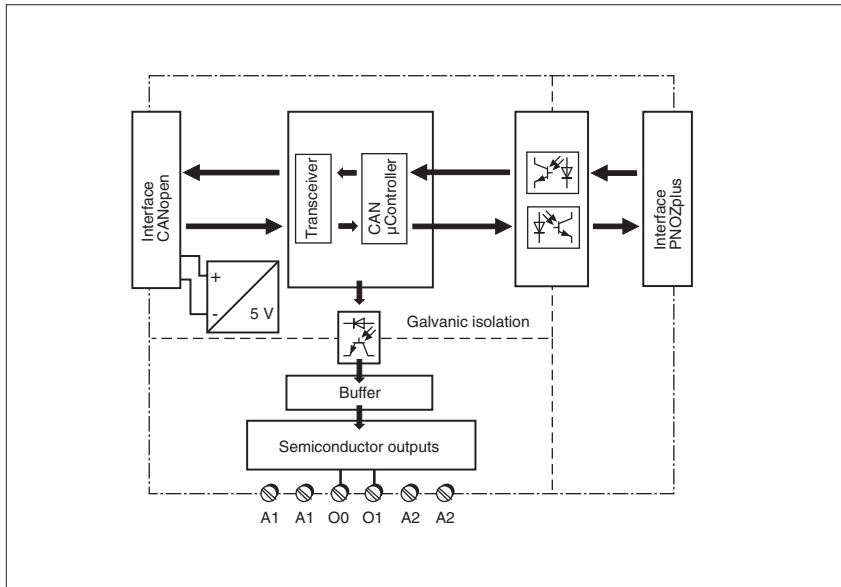
- 45 mm P 97 housing, DIN-Rail mounting
- 2 semiconductor outputs (open drain), controlled via bus
- LEDs indicating switching status of semiconductor outputs
- Two-colour LEDs as status indicators
- Rotary switches for setting node number and transfer rate

Function description

The PCANop has been designed to enable data exchange between a PNOZplus safety relay (e.g. PNOZ XM1) and other CANopen subscribers. Using the PCANop interface, it is possible to transfer error status and switch status (diagnostic data) from a PNOZplus safety relay to other bus subscribers (e.g. PLC, PC). The node address and transfer rate are set using coding switches (rotary switches). The two semiconductor outputs are short-circuit proof, transistor outputs which switch + 24 V (open Drain). These can be controlled via the bus and can be used, for example, to start the PNOZplus safety relay.

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Internal wiring diagram



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General Technical Data

Unless stated otherwise in the technical details for the specific unit

Electrical Data

Frequency Range AC	50 ... 60 Hz
Residual Ripple DC	160 %
Contact Material	AgSnO ₂
Continuous Duty	100 %

Environmental Data

EMC	EN 50081-1, 01/92, EN 50082-2, 03/95
Vibration in accordance with EN 60068-2-6, 04/95	Frequency: 10 ... 55 Hz, Amplitude: 0.35 mm
Climatic Suitability	DIN IEC 60068-2-3, 12/86
Airgap Creepage	DIN VDE 0110 part 1, 04/97
Ambient Temperature	-10 ... +55 °C
Storage Temperature	-40 ... +85 °C

Mechanical Data

Torque Setting on Connection Terminals	0.6 Nm (screws)
Mounting Position	Any
Housing Material	Thermoplast Noryl SE 100
Protection	Mounting: IP 54 Housing: IP 40 Terminal Range: IP 20

The units were tested in accordance with the relevant standards current at the time of development.

Order References

Type	U _B	Order No.
PCANop	24 V DC	774 660