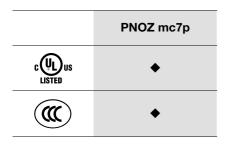


Expansion modules PNOZ mc7p



Expansion module for connection to a base unit from the PNOZmulti modular safety system

Approvals



Block diagram

Unit features

- Can be configured in the PNOZmulti Configurator
- Connection for CC-Link
- Station addresses from 0 ... 63, selected via rotary switch
- Status indicators for communication with CC-Link and for errors
- Max. 1 PNOZ mc7p units can be connected to the base unit
- Station type: Remote Device
- Assigned stations: 2
- A maximum of 24 outputs on the PNOZmulti safety system can be defined in the PNOZmulti Configurator for communication with CC-Link.

Unit description

The expansion module may only be connected to a base unit from the PNOZmulti modular safety system. It connects the PNOZmulti modular safety system to CC-Link. The PNOZmulti modular safety system is used for the safety-related interruption of safety circuits. The unit is designed for use in:

Emergency stop equipment

 Safety circuits in accordance with VDE 0113 Part 1 and EN 60204-1

The PNOZ mc7p expansion module is used for communication between the PNOZmulti modular safety system and CC-Link.

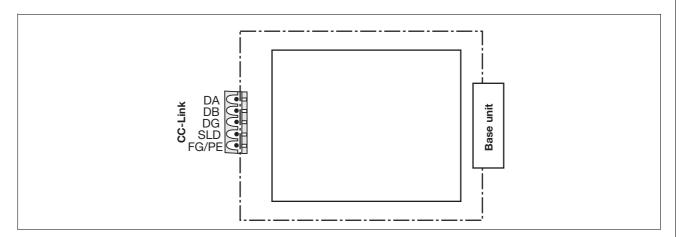
CC-Link is designed for fast data exchange at field level. The expansion module PNOZ mc7p is a passive CC-Link subscriber (Slave). The basic communication functions conform to CC-Link Ver.1.10. The central controller (Master) reads input information from the slaves and writes output information to the slaves as part of each cycle. As well as the cyclical transfer of usable data, CC-Link can also be used for diagnostics and commissioning functions.

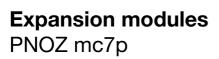
The expansion module may not be used for safety-related functions.

System requirements

- PNOZmulti Configurator: from Version 3.0.0
- Base unit PNOZ m1p: from Version 3.0

Please contact Pilz if you have an older version.



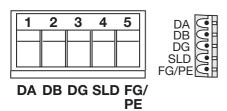


Function description

The data to be transferred via CC-Link is selected and configured in the PNOZmulti Configurator. The base

Wiring

The wiring is defined in the circuit diagram of the PNOZmulti Configurator. It is possible to define which outputs on the safety system will communicate with CC-Link. The connection to CC-Link is made via a 5-pin screw connector.



| 1: DA 2: DB 3: DG | Kanal A Kanal B Masse |
|-------------------------|-----------------------------|
| 3: DG 4: SLD | Kabelschirm |
| 5: FG/PE | Funktionserde |
| 0 0 ,. _ | |

Please note:

- Information given in the "Technical details" must be followed.
- Use copper wire that can withstand 75 °C.

Please note the following when connecting to CC-Link:

- Only use metal plugs or metallised plastic plugs
- Twisted pair, screened cable must be used to connect the interfaces

unit and the PNOZ mc7p are connected via a jumper. The PNOZ mc7p is also supplied with voltage via this jumper. The station address is set via 2 rotary switches. After the supply

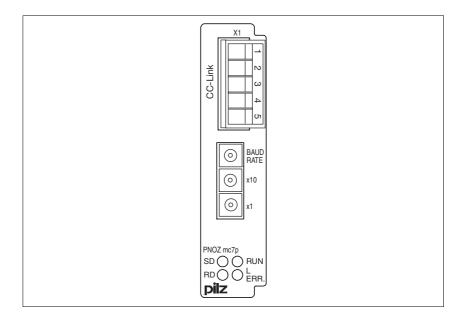
voltage is switched on or the PNOZmulti safety system is reset, the PNOZ mc7p is configured and started automatically.





Expansion modules PNOZ mc7p

Terminal configuration

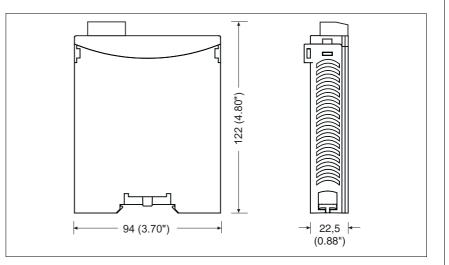


Installation

- The safety system should be installed in a control cabinet with a protection type of at least IP54. Fit the safety system to a horizontal DIN rail. The venting slots must face upward and downward. Other mounting positions could damage the safety system.
- Use the notches on the back of the unit to attach it to a DIN rail. Connect the safety system to the DIN rail in an upright position, so that the earthing springs on the safety system are pressed on to the DIN rail.
- To comply with EMC requirements, the DIN rail must have a low impedance connection to the control cabinet housing.

The expansion module must always be installed to the left of the base unit. A distance of at least 20 mm must be maintained between the expansion module and any external heat sources.





Products



Expansion modules PNOZ mc7p

Notice

This data sheet is only intended for use during configuration. For installation and operation, please refer to the operating instructions supplied with the unit.

| 24 VDC |
|------------------------------------|
| Max 2.5 W |
| |
| Min. 20 ms |
| |
| Non-safety-related applications |
| Slave |
| LED |
| 063 |
| 2 |
| 156, 625 kBit/s, 2.5; 5; 10 MBit/s |
| 5-pin screw connector |
| Yes |
| 500 VAC |
| 500 VAC |
| |
| 10 55 Hz |
| 0.35 mm |
| DIN IEC 60068-2-3, 12/86 |
| EN 61000-6-2, 10/01 |
| 0 + 55 °C |
| -25 + 70 °C |
| -23 + 70 0 |
| |
| IP54 |
| IP20 |
| IP20 |
| |
| 35 x 7.5 EN 50022 |
| 27 mm |
| |
| PPO UL 94 V0 |
| ABS UL 94 VO |
| 94 x 22.5 x 122 mm |
| 150 g |
| |

Order reference

| Туре | Features | | Order no. |
|-----------|------------------|--------------------------|-----------|
| PNOZ mc7p | Expansion module | Fieldbus module, CC-Link | 773 726 |