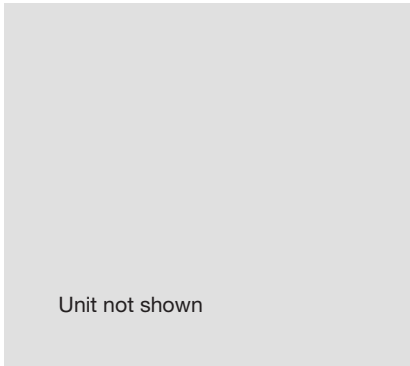


Expansion modules

PNOZ mc0p



Unit features

- ▶ Interface to connect the base unit and a fieldbus module
- ▶ Galvanic isolation
- ▶ Max. 1 fieldbus module (PNOZ mc5p or PNOZ mc5.1p LWL) can be connected
- ▶ Supply voltage 24 VDC
- ▶ Status indicators
- ▶ Plug-in terminals, either with cage clamp connection or screw connection

Unit description

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

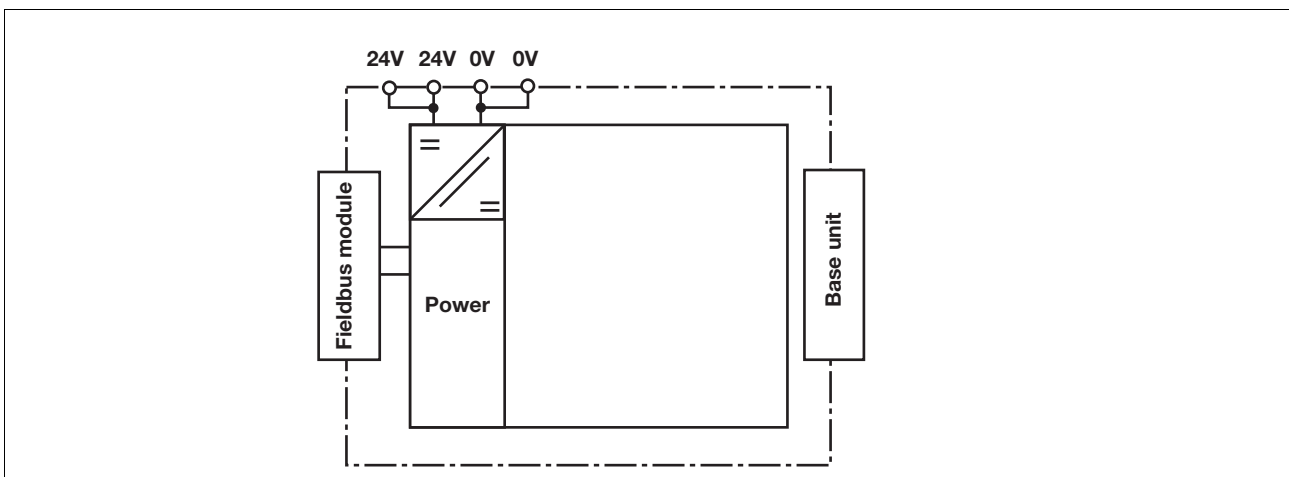
- ▶ Emergency stop equipment
- ▶ Safety circuits in accordance with VDE 0113 Part 1 and EN 60204-1

The expansion module may not be used for safety-related functions. It may only be used to supply voltage to the following fieldbus modules:

- ▶ PNOZ mc5p INTERBUS
- ▶ PNOZ mc5.1p INTERBUS LWL

Power supply to supply voltage to fieldbus modules

Block diagram



Expansion modules

PNOZ mc0p

Function description

The PNOZ mc0p power supply provides the fieldbus module with the necessary internal supply voltage. This way the fieldbus module remains available even when the base unit is switched off. The power supply is connected to the base unit and fieldbus

module via jumpers. When the 24 VDC supply voltage is applied, the "POWER" LED is lit. The "BASE" LED is lit when supply voltage is applied to the base unit.

Verdrahtung


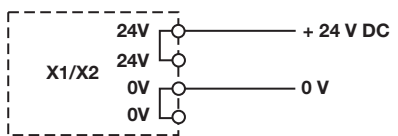
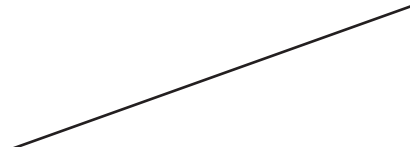
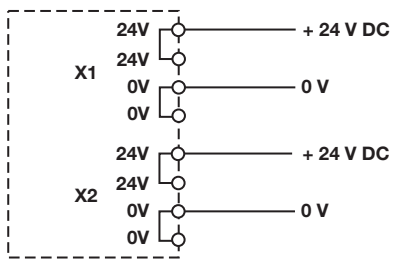
The wiring is defined in the circuit diagram in the Configurator.

Please note:

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

Preparing for operation

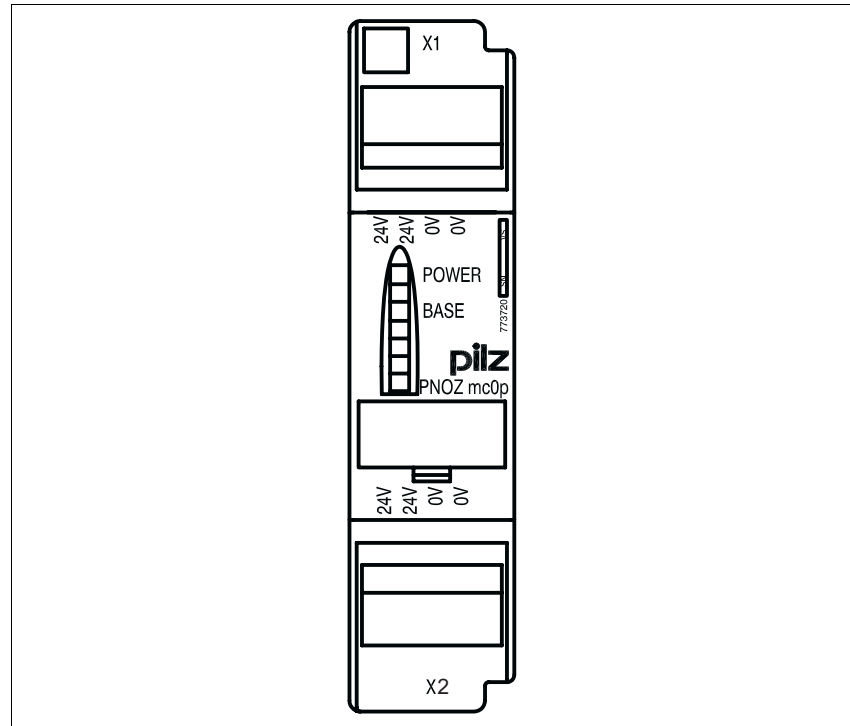
- ▶ Supply voltage

Supply voltage	AC	DC
<p>Supply voltage to Interbus master only: Connect the supply voltage to X1 or X2 The fieldbus connection is maintained even when the base unit is switched off. When the Interbus master is restarted, the power to the base unit will need to be reset.</p>		
<p>Supply voltage to Interbus master and base unit: Example: Connect the supply voltage of the base unit to X1 Connect the supply voltage of the Interbus master to X2 The fieldbus connection is maintained even when the base unit is switched off. When the Interbus master is restarted, the fieldbus is available immediately.</p>		

Expansion modules

PNOZ mc0p

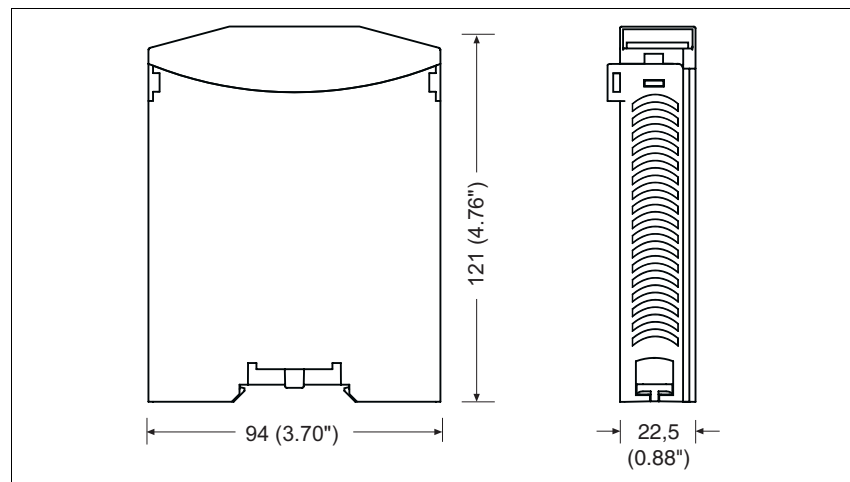
Terminal configuration



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.

Dimensions



Expansion modules

PNOZ mc0p

NOTICE

This data sheet is only intended for use during configuration. For installation and operation, please refer to the op-

erating instructions supplied with the unit.

Technical details	
Electrical data	
Supply voltage (U _B)	24 VDC
Voltage tolerance	-15% ... 20%
Power consumption at U _B without load	< 5 W
Residual ripple U _B	±5 %
Galvanic isolation	Yes
Test voltage	500 VAC
Status indicator	LED
Times	
Supply interruption before de-energisation	Min. 20 ms
Environmental data	
Airgap creepage	DIN VDE 0110-1, 04/97
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
EMC	EN 60947-5-1, 01/00
Ambient temperature	0 ... + 55 °C
Storage temperature	-25 ... + 70 °C
Mechanical data	
Protection type	
Mounting (e.g. cabinet)	IP54
Housing	IP20
Terminals	IP20
DIN rail	
Top hat rail	35 x 7.5 EN 50022
Recess width	27 mm
Cable cross section	
Rigid single-core, flexible multi-core or multi-core with crimp connector	0.5 ... 1.5 mm²
Torque setting for connection terminals (screws)	0.2 ... 0.25 Nm
Housing material	
Housing	PPO UL 94 V0
Front	ABS UL 94 V0
Dimensions (H x W x D)	94 x 22.5 x 121 mm
Weight with connector	130 g

Order reference			
Type	Features		Order no.
PNOZ mc0p	24 VDC	Power supply for fieldbus modules	773 720