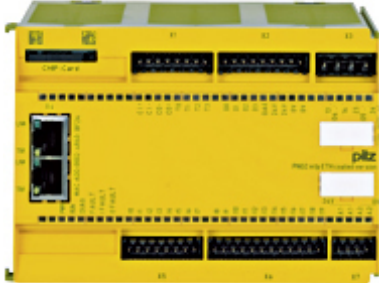


## PNOZ m1p ETH coated version

773104



Configurable safe small controllers PNOZmulti Classic, base unit, expandable, 2 Ethernet / Modbus TCP interfaces, 20 safe digital inputs, 4 safe semiconductor outputs, 2 safe semiconductor outputs, 2 safe relay outputs, for enhanced environmental requirements.

## Technical details

### General data

Approval: CE, UKCA, cULus Listed, KCC, KOSHA, EAC (Eurasian), TÜV

### Technical data

#### Electrical data

Purpose of U1: System supply

Supply voltage (V): 24 - 24 V

Type of supply voltage U1: DC

Purpose of U2: Supply of SC outputs

Supply voltage 2 (V): 24 - 24 V

Type of supply voltage U2: DC

Potential isolation U2: Yes

#### Inputs

Max. no. live inputs:  $U_B \leq 26.4 \text{ V} : 20$ ,  $U_B > 26.4 \text{ V} : 15$

Signal level at input at 0: -3 - +5 VDC

U input to EN 61131-2 Type 1: 24 V DC

Potential isolation input: No

#### Semiconductor outputs

Number of semicond. outputs: 4

Potential isolation of S/C O: Yes

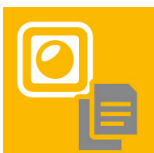
S/C output short circuit proof: Yes

Semiconductor outputs (standard)	
Number of auxiliary outputs:	1
Galv. isol. n/safe SC O:	Yes
Short circ. prot. n/safe S/C O:	Yes
Signal level at 1 n/safe S/C O:	UB - 0.5 VDC at 0.5 A
Test clock outputs	
Number of test pulse outputs:	4
Relay outputs	
Number of relay outputs:	2
Utilisation cat. AC/DC1 stand.:	EN 60947-4-1
Voltage AC1 safety cont.:	240 V
Max. current AC1 safety cont.:	6 A
Voltage DC1 safety cont.:	24 V
Max. current DC1 safety cont.:	6 A
Utilisation cat. AC15/DC13sta.:	EN 60947-5-1
Voltage AC15 safety cont.:	230 V
Max. current AC15 safety cont.:	3 A
Voltage DC13 safety cont.:	24 V
Pot. isolation relay outputs:	Yes
Cascading output as standard output	
Number of cascading outputs:	1
Galv. isol. casc. aux. S/C O:	No
CANopen interface	
Number of Ethernet interfaces:	2
Environmental data	
Ambient temperature standard:	EN 60068-2-14
Ambient temperature:	-25 - 60 °C
Storage temperature standard:	EN 60068-2-1/-2
Climatic suitability standard:	EN 60068-2-30, EN 60068-2-78

Humidity rating:	93 % r. h. at 40 °C
Condensation permitted?:	at prot. xtra low volt.: brief
Perm. operating height ASL:	2000 m
EMC to standard ...:	EN 61131-2
Vibration to standard ...:	EN 60068-2-6
Broad band noise to:	EN 60068-2-64
Corrosive gas check SO <sub>2</sub> :	DIN V 40046-36
Corrosive gas check H <sub>2</sub> S:	DIN V 40046-37
Acc. shock to standard1:	15g
Clearance & creepage dist. to:	EN 61131-2
Overvoltage category:	III
Pollution degree clear.&creep.:	2
Protection type standard:	EN 60529
Potential separation	
Potential isolation 1 between:	SC output and system voltage
Type of potential isolation 1:	Safe separation
Potential isolation 2 between:	RL output and system voltage
Type of potential isolation 2:	Safe separation
Mechanical data	
Mounting position:	horizontal on top hat rail
DIN-rail dimensions:	35 x 7.5 EN 50022
Housing material lower section:	PPO UL 94 V0
Housing material front plate:	ABS UL 94 V0
Connection terminal:	Screw terminal, Spring-loaded terminal
Flex. cond. c/s AWG info:	24 - 16 AWG
Cond.flex AWG w/o crimp conn.:	24 - 12 AWG
Height dimension:	94 mm
Width dimension:	135 mm
Depth dimension:	121 mm

Net weight:	538 g
Gross weight:	557 g
<b>Environment</b>	
RoHS directive:	2011/65/EU, 2015/863/EU
RoHS conformity:	yes
RoHS exceptions:	yes
RoHS except.s acc. to direct.:	7a, 6c, 7c I
REACH compliance:	contains min. 1 SVHC-substance
REACH included substances:	Lead, Lead oxide
%-part of the pollutant:	> 0,1
CAS No.:	7439-92-1, 1317-36-8
WEEE classification (08/2018):	5 devices (feed size < 50cm)
SCIP entry available:	0
<b>Commercial data</b>	
Harmonized System Code:	85371091
UNSPSC 25:	39122331
EAN-Code:	4046548066401
ECLASS version:	ECLASS-13
ECLASS Reference Feature:	27242207
ETIM Version:	ETIM-9.0
ETIM Reference Group:	EG000024
ETIM Reference Feature:	EC000236
Volume:	1.680 dm <sup>3</sup>

## Obligatory accessories



773010B

Basic Licence for PNOZmulti Config.

779211

Chipcard 1 piece 32kB



793100

PNOZ m1p/m0p plug in screw terminals



779201

PNOZmulti Chipcard 1 piece 8kb



783100

PNOZ m1p Set spring loaded terminals



## Optional accessories

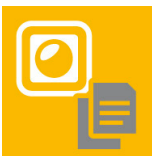
779200

PNOZmulti Chipcard Set 10 piece 8KB



779112

PNOZmulti Bus-Terminator coated



773010L

Lite Licence for PNOZmulti Config.

779212

PNOZmulti Chipcard Set 10 pieces 32kB





779250

PNOZmulti Seal 12 pieces



779240

PNOZmulti Chipcard Holder (Sparepart)



779230

PNOZ Chip Card Reader



779000

PNOZmulti Tool Kit



773010V

User Upgr Licence for PNOZmulti Config



773011U

Basic Upgr Licence for PNOZmulti Service



773010U

Basic Upgr Licence for PNOZmulti Config



773011V

User Upgr Licence for PNOZmulti Service



774639

KOP-XE



773011B

Basic Licence for PNOZmulti Service

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773011K

User Licence for PNOZmulti Service

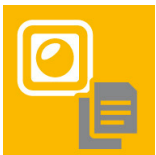
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773010K

User Licence for PNOZmulti Config

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773011L

Lite Licence for PNOZmulti Service

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