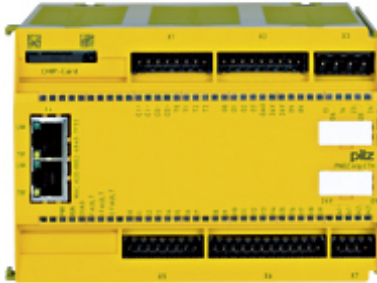


PNOZ m1p ETH

773103



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

Technical details

General data

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

Technical data

Electrical data

Purpose of U1: Versorgung des Systems

Supply voltage (V): 24 - 24 V

Type of supply voltage U1: DC

Purpose of U2: Versorgung der HL-Ausgänge

Supply voltage 2 (V): 24

Type of supply voltage U2: DC

Tolerance of U2: -15 %/+20 %

Potential isolation U2: ja

Inputs

Number of digital inputs: 20

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 V DC

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

Potential isolation input: nein

Semiconductor outputs

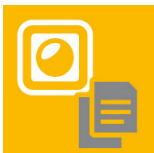
Number of semicond. outputs: 4

Potential isolation of S/C O:	ja
S/C output short circuit proof:	ja
Semiconductor outputs (standard)	
Number of auxiliary outputs:	1
Galv. isol. n/safe SC O:	ja
Short circ. prot. n/safe S/C O:	ja
Signal level at 1 n/safe S/C O:	UB - 0,5 V DC bei 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
Max. current AC1 safety cont.:	6
Voltage DC1 safety cont.:	24
Max. current DC1 safety cont.:	6
Utilisation cat. AC15/DC13sta.:	EN 60947-5-1
Voltage AC15 safety cont.:	230
Max. current AC15 safety cont.:	3
Voltage DC13 safety cont.:	24
Pot. isolation relay outputs:	ja
Cascading output as standard output	
Number of cascading outputs:	1
Galv. isol. casc. aux. S/C O:	nein
CANopen interface	
Number of Ethernet interfaces:	2
Environmental data	
Ambient temperature standard:	EN 60068-2-14
Ambient temperature:	0 - 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?:	Not permitted
Perm. operating height ASL:	2000 m
EMC to standard ...:	EN 61131-2
Vibration to standard ...:	EN 60068-2-6
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
Protection type, mounting:	IP54
Protection type, housing:	IP20
Terminal protection type:	IP20
Potential separation	
Potential isolation 1 between:	SC output and system voltage
Type of potential isolation 1:	sichere Trennung
Potential isolation 2 between:	RL output and system voltage
Type of potential isolation 2:	sichere Trennung
Mechanical data	
Mounting position:	waager. auf Hutschiene
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:	Schraubklemme, Federkraftklemme
Flex. cond. c/s AWG info:	24 - 16 AWG
Cond.flex AWG w/o crimp conn.:	24 - 12 AWG
Height dimension:	94

Width dimension:	135
Depth dimension:	121
Net weight:	518
Gross weight:	537
Environment	
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)
Commercial data	
ECLASS version:	ECLASS-9.1
ECLASS Reference Feature:	27242207
ETIM Version:	ETIM-7.0
ETIM Reference Group:	EG000024
ETIM Reference Feature:	EC000236

Obligatory accessories



773010B

Basic Licence for PNOZmulti Config.



779211

Chipcard 1 piece 32kB

793100

PNOZ m1p/m0p plug in screw terminals



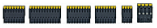
779201

PNOZmulti Chipcard 1 piece 8kb



783100

PNOZ m1p Set spring loaded terminals



Optional accessories

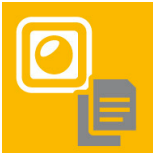
779200

PNOZmulti Chipcard Set 10 piece 8KB



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



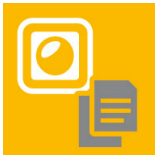
779000

PNOZmulti Tool Kit



779110

PNOZmulti Bus-Terminator



773010V

User Upgr Licence for PNOZmulti Config



773011U

Basic Upgr Licence for PNOZmulti Service



773010U

Basic Upgr Licence for PNOZmulti Config



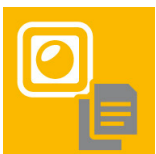
773011V

User Upgr Licence for PNOZmulti Service



774639

KOP-XE



773011B

Basic Licence for PNOZmulti Service



773011K

User Licence for PNOZmulti Service



773010K

User Licence for PNOZmulti Config



773011L

Lite Licence for PNOZmulti Service
