

## PNOZ m EF 2MM

772171



Configurable safe small controllers PNOZmulti 2, expansion module, safe monitoring of 2 axes.

## Technical details

### General data

|                    |  |
|--------------------|--|
| Approval:          | CE, UKCA, cULus Listed, KOSHA, EAC (Eurasian), TÜV |
| Application range: | Failsafe   |

### Technical data

#### Electrical data

|                             |               |
|-----------------------------|---------------|
| Purpose of UINT1:           | Module supply |
| Source of internal voltage: | Via base unit |
| Voltage type of UINT1:      | DC            |

#### Input proximity switch

|                                 |                |
|---------------------------------|----------------|
| Prog. mon.fun. wo hyst prox sw: | 0.1 Hz - 5 kHz |
|---------------------------------|----------------|

#### Input incremental encoder

|                                  |                                |
|----------------------------------|--------------------------------|
| Connection (increment encoder):  | 8-pin Mini-IO female connector |
| Phase pos. diff.sign. inc. enc.: | 90° ±30°                       |
| Prog. mon. fun. wo hyst. incr.:  | 0.1 Hz - 500 kHz               |

#### Inputs

|                            |     |
|----------------------------|-----|
| Potential isolation input: | Yes |
|----------------------------|-----|

#### 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           |
| 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:           | II                                     |
| Pollution degree clear.&creep.: | 2                                      |
| Protection type standard:       | EN 60529                               |
| Times                           |  |
| Reaction time over limit value: | 1/f_actual + 16ms                      |
| Potential separation            |  |
| Potential isolation 1 between:  | Sensor and system voltage              |
| Type of potential isolation 1:  | Functional insulation                  |
| Potential isolation 2 between:  | Sensor 1 and sensor 2                  |
| Type of potential isolation 2:  | Functional insulation                  |
| Mechanical data                 |  |
| Mounting position:              | horizontal on top hat rail             |
| Housing material lower section: | PC                                     |
| Housing material front plate:   | PC                                     |
| Housing material upper part:    | PC                                     |
| Connection terminal:            | Screw terminal, Spring-loaded terminal |
| Terminal style:                 | plug-in                                |
| Flex. cond. c/s AWG info:       | 24 - 12 AWG                            |
| Height dimension:               | 101.4 mm                               |
| Width dimension:                | 22.5 mm                                |
| Depth dimension:                | 111 mm                                 |
| Net weight:                     | 120 g                                  |

|                                |  |
|--------------------------------|--|
| Gross weight:                  | 130 g                                    |
| <b>Environment</b>             |  |
| RoHS directive:                | all the relevant guidelines, 2015/863/EU |
| RoHS conformity:               | yes                                      |
| RoHS exceptions:               | yes                                      |
| RoHS except.s acc. to direct.: | 7a, 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:        | 85389091                                 |
| UNSPSC 25:                     | 39122331                                 |
| EAN-Code:                      | 4046548069617                            |
| ECLASS version:                | ECLASS-13                                |
| ECLASS Reference Feature:      | 27242205                                 |
| ETIM Version:                  | ETIM-9.0                                 |
| ETIM Reference Group:          | EG000024                                 |
| ETIM Reference Feature:        | EC001422                                 |
| Volume:                        | 0.366 dm <sup>3</sup>                    |

## Obligatory accessories

793544

Screw terminals PNOZ 2MM 1 set



783544

Spring terminals PNOZ 2MM 1 set



## Optional accessories

773871

PNOZ msi S15



773870

PNOZ msi S09



772201

MM A MINI-IO CAB99 2.5m



773872

PNOZ msi S025



772200

MM A MINI-IO CAB99 1.5m



772202

MM A MINI-IO CAB99 5.0m



779260

PNOZ mm0.xp connector left (10 pcs)





773845

PNOZ msi b4 Box

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