



PSSu E S 4DI(-T)

PILZ
THE SPIRIT OF SAFETY

- ▶ Decentralised system PSSuniversal I/O

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SD means Secure Digital

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1 Introduction

1.1 Validity of documentation

This documentation is valid for the products PSSu E S 4DI and PSSu E S 4DI-T. It is valid until new documentation is published.

This operating manual explains the function and operation, describes the installation and provides guidelines on how to connect the product.

1.1.1 Retaining the documentation

This documentation is intended for instruction and should be retained for future reference.

1.1.2 Terminology: System environment A and B

The PSSu system can be used in two different system environments. The module's application area is described in the chapter "Intended Use" of the manual.

The distinction is made between

- ▶ PSSu in system environment A
- ▶ PSSu in system environment B

The distinction is based on the application area of the PSSu system.

PSSu in system environment A may be used in the

- ▶ Decentralised system PSSu I/O
- ▶ **Not** in the automation system PSS 4000

PSSu in system environment B may be used in the

- ▶ Automation system PSS 4000, e.g. with
 - Decentralised system PSSu I/O with SafetyNET p
 - Control system PSSu PLC
 - Control system PSSu multi

1.2 Definition of symbols

Information that is particularly important is identified as follows:



DANGER!

This warning must be heeded! It warns of a hazardous situation that poses an immediate threat of serious injury and death and indicates preventive measures that can be taken.



WARNING!

This warning must be heeded! It warns of a hazardous situation that could lead to serious injury and death and indicates preventive measures that can be taken.



CAUTION!

This refers to a hazard that can lead to a less serious or minor injury plus material damage, and also provides information on preventive measures that can be taken.



NOTICE

This describes a situation in which the product or devices could be damaged and also provides information on preventive measures that can be taken. It also highlights areas within the text that are of particular importance.



INFORMATION

This gives advice on applications and provides information on special features.

2 Overview

2.1 Module structure

A module consists of

- ▶ Electronic module and
- ▶ Base module with
 - Screw terminals or
 - Cage clamp terminals

The base modules are the carrier units for the electronic modules and are used to connect the field wiring. The electronic modules are inserted on to the base modules and determine the module's function.

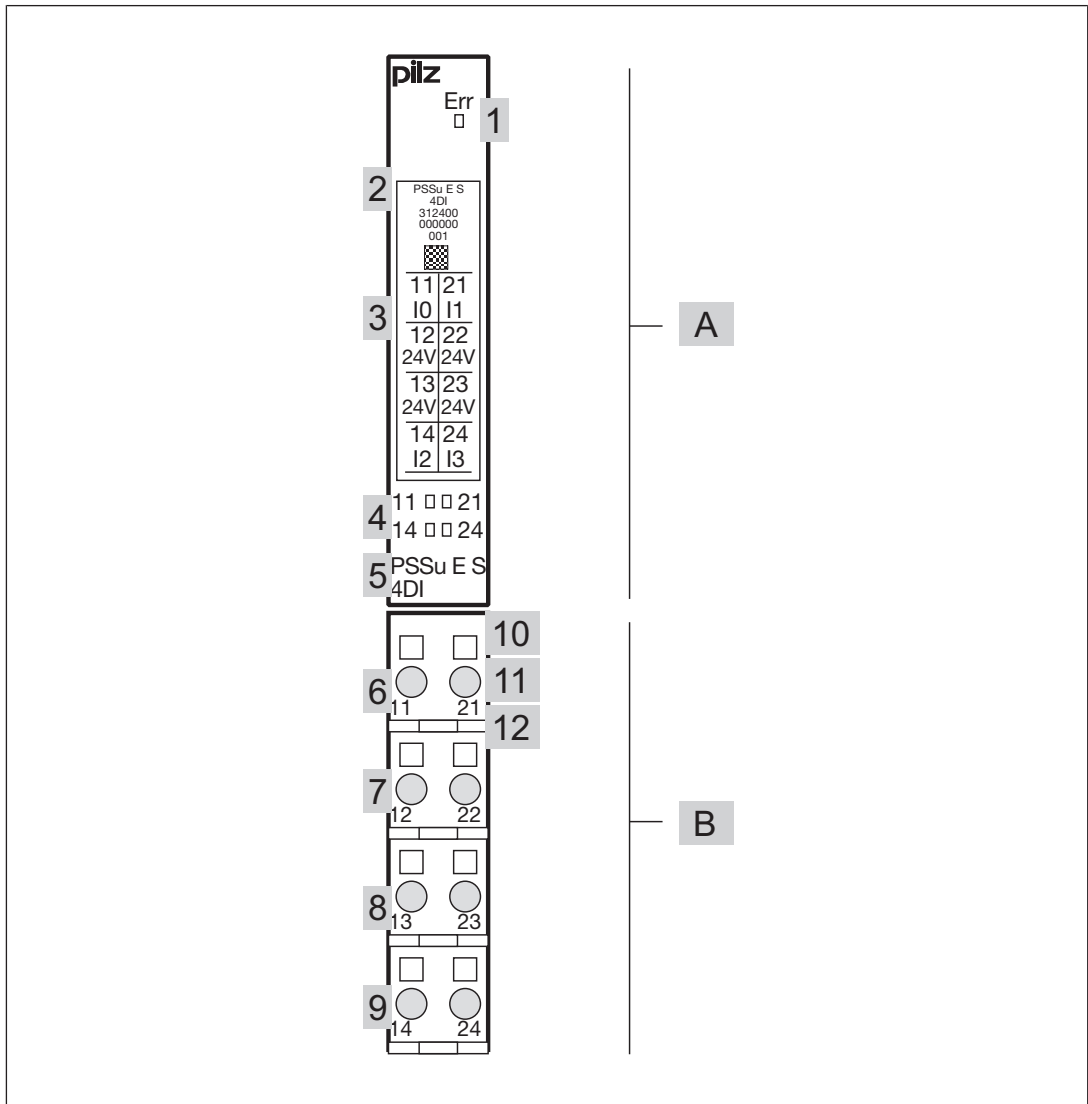
Details of the base modules that can be used are available in the chapter entitled “Intended Use”.

2.2 Module features

The product has the following features:

- ▶ 4 Digital inputs
- ▶ LEDs for:
 - Switch status of each input
 - Module error
- ▶ For standard applications in system environment A and B
- ▶ T-type:
 - PSSu E S 4DI-T: for increased environmental requirements

2.3 Front view



Legend:

- ▶ A: Electronic module
- ▶ B: Base module
- ▶ 1: LED for module diagnostics
- ▶ 2: Labelling strip with:
 - Name of electronic module
 - Order Number
 - Serial number
 - Hardware version number
 - 2D code
- ▶ 3: Labelling strip for the terminal configuration on the base module
- ▶ 4: Status LEDs
- ▶ 5: Name of electronic module
- ▶ 6: Connection level 1

- ▶ 7: Connection level 2
- ▶ 8: Connection level 3
- ▶ 9: Connection level 4
- ▶ 10: Square mounting holes (connection levels 1, 2, 3 and 4)
 - With screw to loosen/tighten the screw terminal on base modules with screw terminals
 - With mechanism to operate the cage clamp on base modules with cage clamp terminals
- ▶ 11: Round connection holes (connection levels 1, 2, 3 and 4) for connecting the signal lines
- ▶ 12: Mounting slot for colour marker to label the connection level (connection levels 1, 2, 3 and 4)

3 Safety

3.1 Intended use

The module may be used for standard applications in system environment A and B.

The modules PSSu E S 4DI and PSSu E S 4DI-T can be used as non-safety-related components in accordance with the Lifts Directive 2014/33/EU. The modules meet the environmental requirements for passenger and goods lifts in accordance with EN 81-1/2, EN 81-20, EN 81-22 and EN 81-50, as well as the requirements for escalators and moving walks in accordance with EN 115-1.

The programmable safety system should be installed in a protected environment that meets at least the requirements of pollution degree 2. Example: Protected inside space or control cabinet with protection class IP54 and corresponding air conditioning.

The module provides type 1 inputs in accordance with IEC 61131-2. It may be used as an input module for standard functions.

The module PSSu E S 4DI-T is suitable for use where there are increased environmental requirements (see Technical Details).

With reference to the standard IEC 61131-2 the values stated in the technical details for ambient temperature are reduced at heights >2000 m operating height above sea level (see [Supplementary data \[30\]](#)).

Intended use includes making the electrical installation EMC-compliant. Please refer to the guidelines stated in the "PSSuniversal Installation Manual". The module is designed for use in an industrial environment. It is not suitable for use in a domestic environment, as this can lead to interference.

The following is deemed improper use in particular:

- ▶ Any component, technical or electrical modification to the module
- ▶ Use of the module outside the areas described in this manual
- ▶ Any use of the module that is not in accordance with the technical details.



INFORMATION

The module is supported by

- ▶ PSSuniversal Configurator and PSSuniversal Assistant from Version 1.4.0
- ▶ PAS4000 from Version 1.0.0
 - We recommend that you always use the latest version (download from www.pilz.com).

The PSSu E S 4DI module may be used in conjunction with the following base modules:

- ▶ PSSu BP 1/8 S
- ▶ PSSu BP 1/8 C
- ▶ PSSu BP-C 1/8 S
- ▶ PSSu BP-C 1/8 C
- ▶ PSSu BP 1/12 S

- ▶ PSSu BP 1/12 C
- ▶ PSSu BP-C1 1/12 S
- ▶ PSSu BP-C1 1/12 C

The module PSSu E S 4DI-T may be used in conjunction with the following base modules:

- ▶ PSSu BP 1/8 S-T
- ▶ PSSu BP 1/8 C-T
- ▶ PSSu BP-C 1/8 S-T
- ▶ PSSu BP-C 1/8 C-T
- ▶ PSSu BP 1/12 S-T
- ▶ PSSu BP 1/12 C-T
- ▶ PSSu BP-C1 1/12 S-T
- ▶ PSSu BP-C1 1/12 C-T

3.2 Safety regulations

3.2.1 Use of qualified personnel

The products may only be assembled, installed, programmed, commissioned, operated, maintained and decommissioned by persons who are competent to do so.

A competent person is a qualified and knowledgeable person who, because of their training, experience and current professional activity, has the specialist knowledge required. To be able to inspect, assess and operate devices, systems and machines, the person has to be informed of the state of the art and the applicable national, European and international laws, directives and standards.

It is the company's responsibility only to employ personnel who

- ▶ Are familiar with the basic regulations concerning health and safety / accident prevention,
- ▶ Have read and understood the information provided in the section entitled Safety
- ▶ Have a good knowledge of the generic and specialist standards applicable to the specific application.

3.2.2 Warranty and liability

All claims to warranty and liability will be rendered invalid if

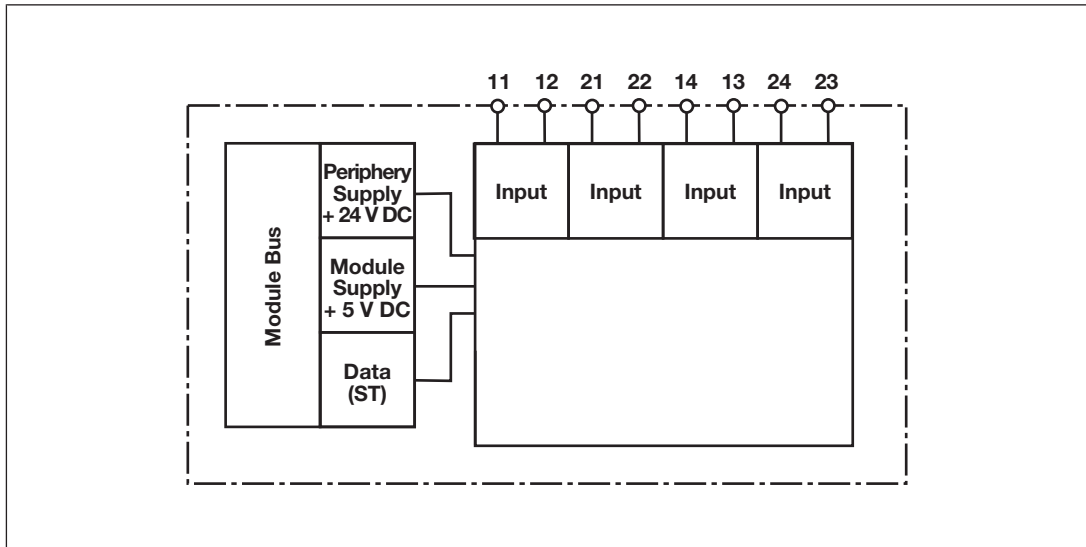
- ▶ The product was used contrary to the purpose for which it is intended,
- ▶ Damage can be attributed to not having followed the guidelines in the manual,
- ▶ Operating personnel are not suitably qualified,
- ▶ Any type of modification has been made (e.g. exchanging components on the PCB boards, soldering work etc.).

3.2.3 Disposal

- ▶ In safety-related applications, please comply with the mission time T_M in the safety-related characteristic data.
- ▶ When decommissioning, please comply with local regulations regarding the disposal of electronic devices (e.g. Electrical and Electronic Equipment Act).

4 Function description

4.1 Block diagram



4.2 Module features

4.2.1 Functions

Module supply

- ▶ The module supply provides the module with voltage.

Periphery supply

- ▶ The module routes the periphery supply from the module bus to the base module terminals.
- ▶ The periphery supply is used to supply the input devices.
- ▶ The module does not switch the periphery supply.
- ▶ The periphery supply has no current limitation.

Inputs

- ▶ The input status is signalled to the head module via the module bus.
- ▶ The inputs have input filters.

4.2.2 Integrated protection mechanisms

When the PSSu E F PS1(-T) or PSSu E F PS2(-T)(-R) is used to supply the system, the module supply is buffered for 20 ms if the supply voltage is interrupted.

The module detects the following errors:

- ▶ Start-up error
- ▶ Configuration error
- ▶ ST communication error
- ▶ Bus termination error

4.2.3 Reaction times

Information on the reaction times of the inputs can be found in the "PSSuniversal" System Description and the System Description "Automation system PSS 4000".

4.3 Configuration

4.3.1 PSSu assignment in system environment A

It is not necessary to configure ST inputs in the PSSuniversal Configurator on the PSS WIN-PRO system software, but ST modules can be selected and displayed.

The ST process image can be optimised by combining adjacent bits of the same type into bytes.

Further information on configuration is available in the PSSuniversal Configurator's online help.

4.3.1.1 Addresses in the process image

The module occupies 4 consecutive bit addresses in the process image.

| Configuration | SafetyBUS p | Standard bus system | |
|---------------|-------------|---------------------|--------|
| | FS-PII | ST-PII | ST-PIO |
| None | --- | 4 Bit | --- |

4.3.2 PSSu assignment in system environment B

Data access is via pre-defined I/O data types:

| I/O data name | I/O data type | I/O data element | Meaning |
|--------------------------------|---------------|------------------|----------------------|
| I0(11), I1(21), I2(14), I3(24) | ST_I_DI | Data: BOOL | Input data I0 ... I3 |

5 Installation

5.1 General installation guidelines

Please also refer to the PSSuniversal Installation Manual.



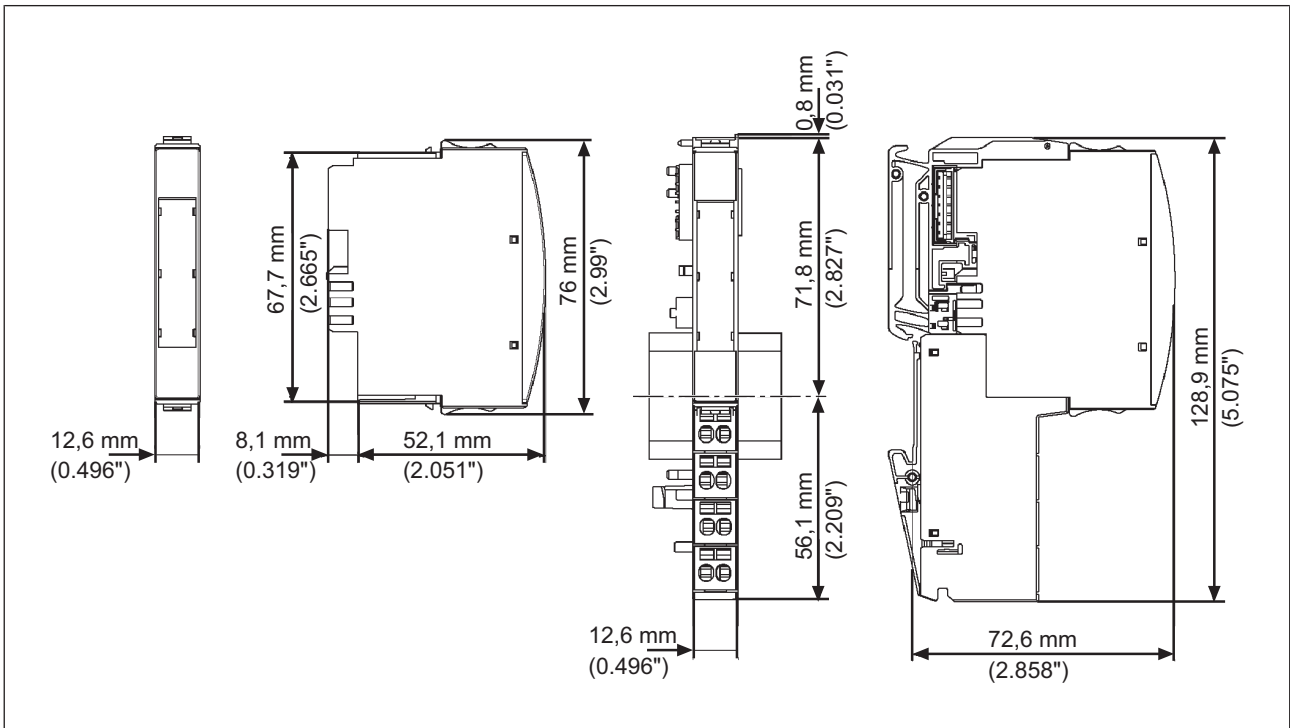
NOTICE

Damage due to electrostatic discharge!

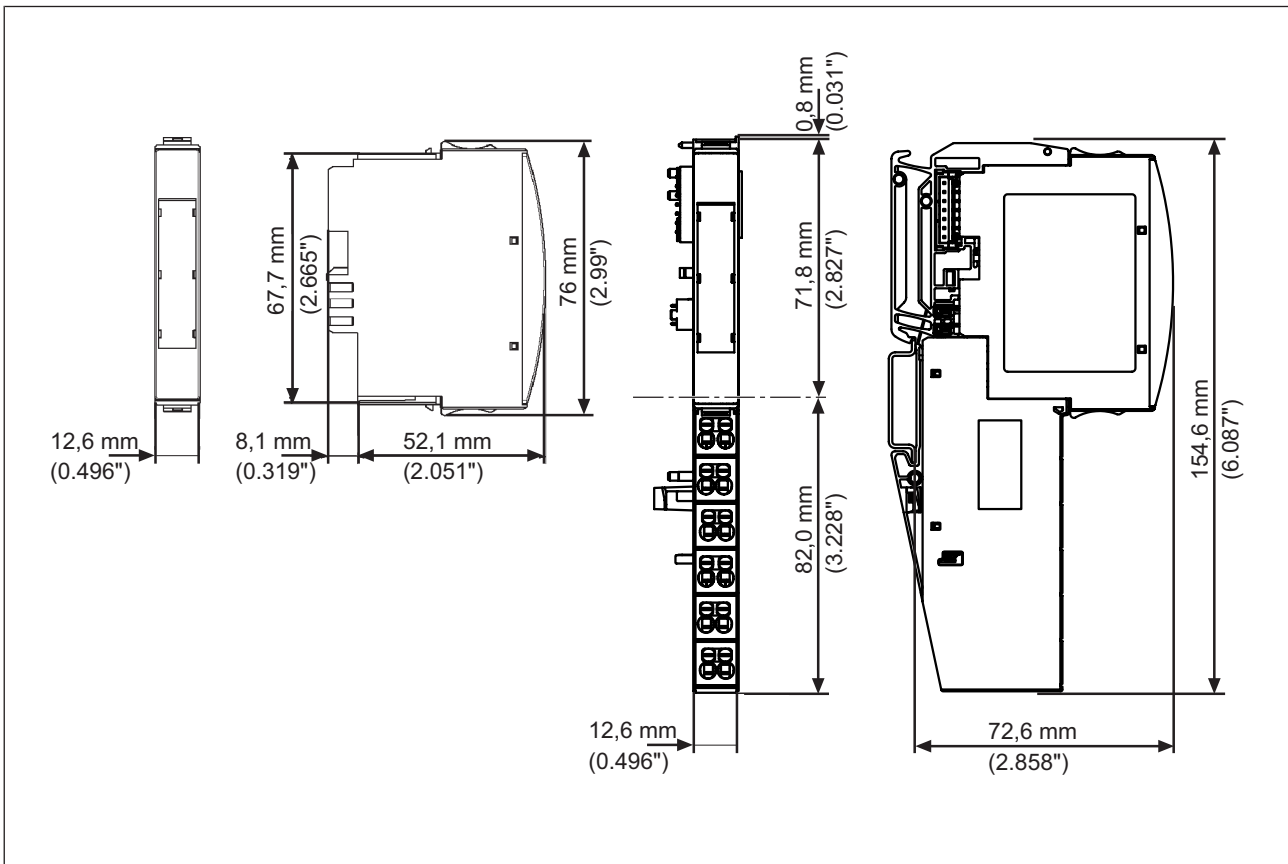
Electrostatic discharge can damage components. Ensure against discharge before touching the product, e.g. by touching an earthed, conductive surface or by wearing an earthed armband.

5.1.1 Dimensions

Base modules with four connection levels:



Base modules with six connection levels:



5.2 Installing the base module

Prerequisite:

- ▶ The head module must be installed.
- ▶ If the head module does not have an integrated power supply, a supply voltage module must be installed to the right of the head module.

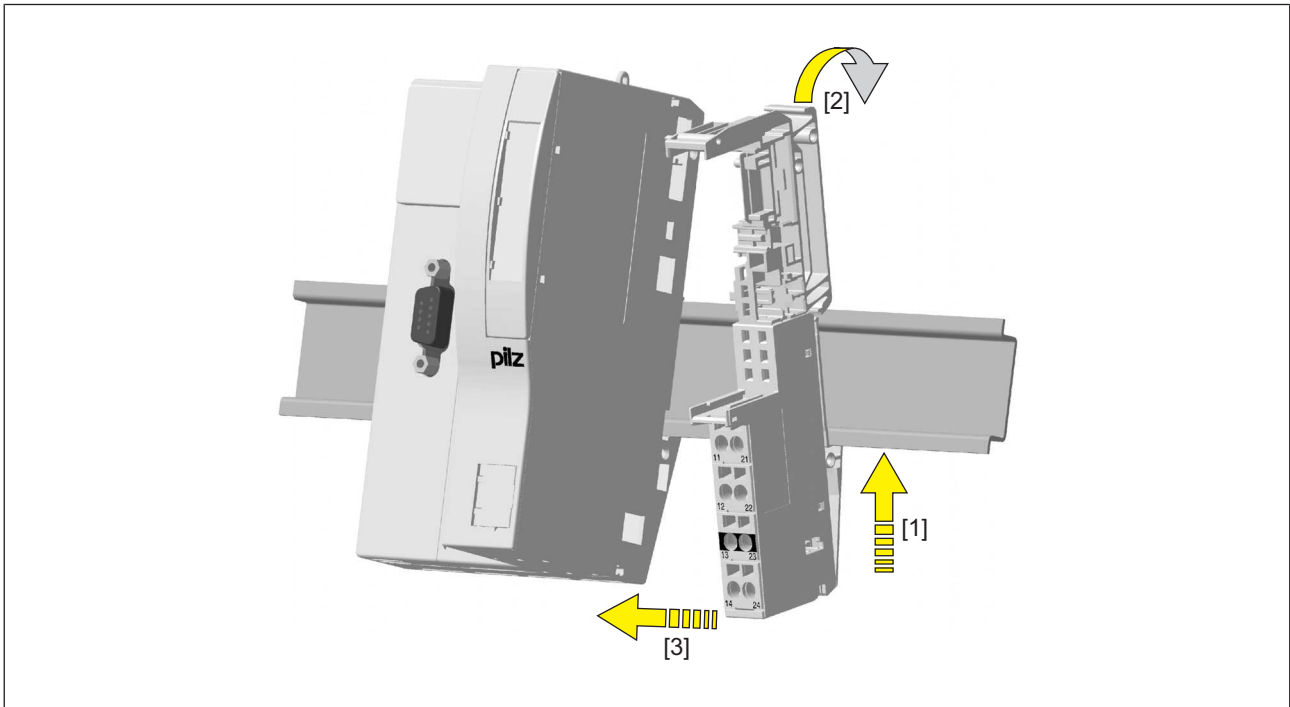
Please note:

- ▶ For mechanical reasons it is not possible to mix base modules with screw terminals and base modules with cage clamp terminals.
- ▶ All contacts should be protected from contamination.
- ▶ The mechanics of the base modules are designed for 50 plug in/out cycles.

Procedure:

- ▶ We recommend that you wire up the base modules before inserting the electronic modules.
- ▶ Slot the groove on the base module on to the mounting rail from below [1].
- ▶ Push the base module back [2] until you hear it lock into position.
- ▶ On the mounting rail, slide the base module to the left until you hear the two lateral mounting hooks on the adjacent module lock into position [3].

Schematic representation:



5.3 Inserting and removing an electronic module

Please note:

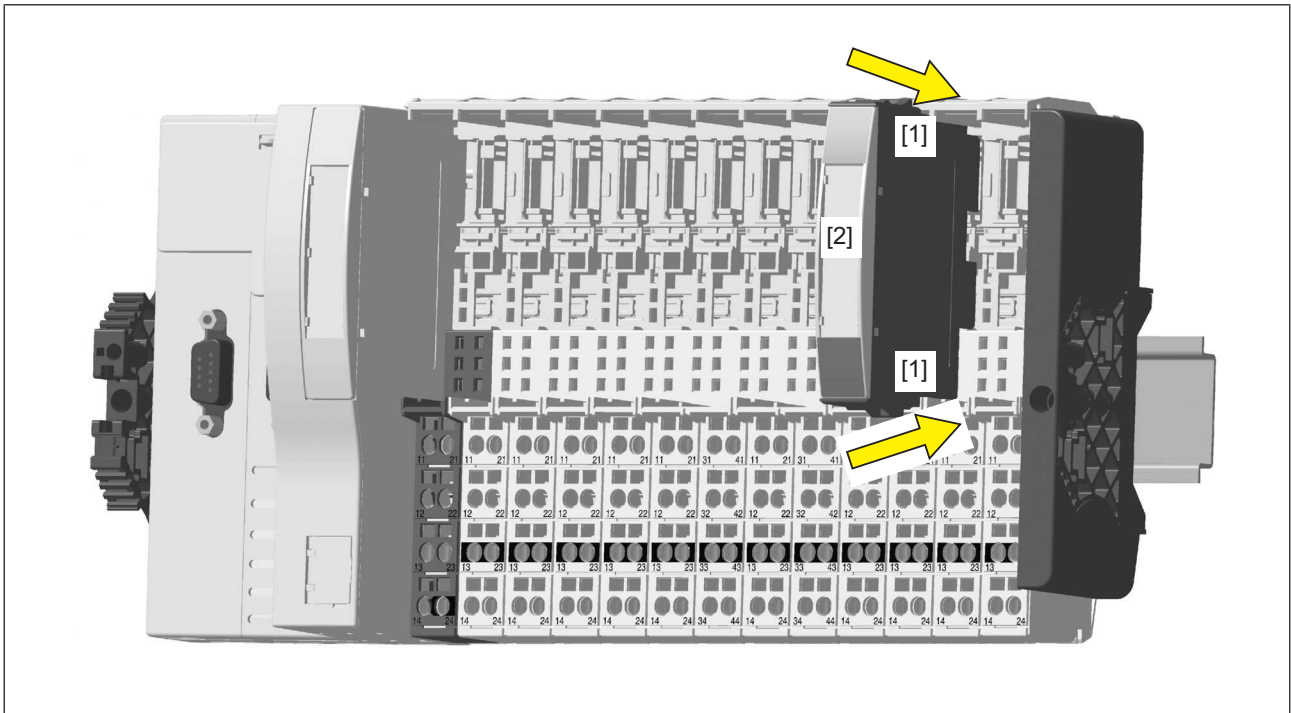
- ▶ Only insert on to base modules that are already installed.
- ▶ Preferably these base modules should be ready wired.
- ▶ Electronic modules with outputs may only be inserted and removed when the load is switched off. Unforeseeable error reactions may be triggered if modules are inserted and removed under load.
- ▶ When an electronic module is plugged into a base module for the first time, one part of the coding element remains on the electronic module, while its counterpart is fixed on to the base module. This is how the base module is coded.
- ▶ The mechanics of the electronic modules are designed for 50 plug in/out cycles.

5.3.1 Inserting an electronic module

Procedure:

- ▶ The electronic module must audibly lock into position [1].
- ▶ Mark the electronic module using the labelling strips [2].

Schematic representation:

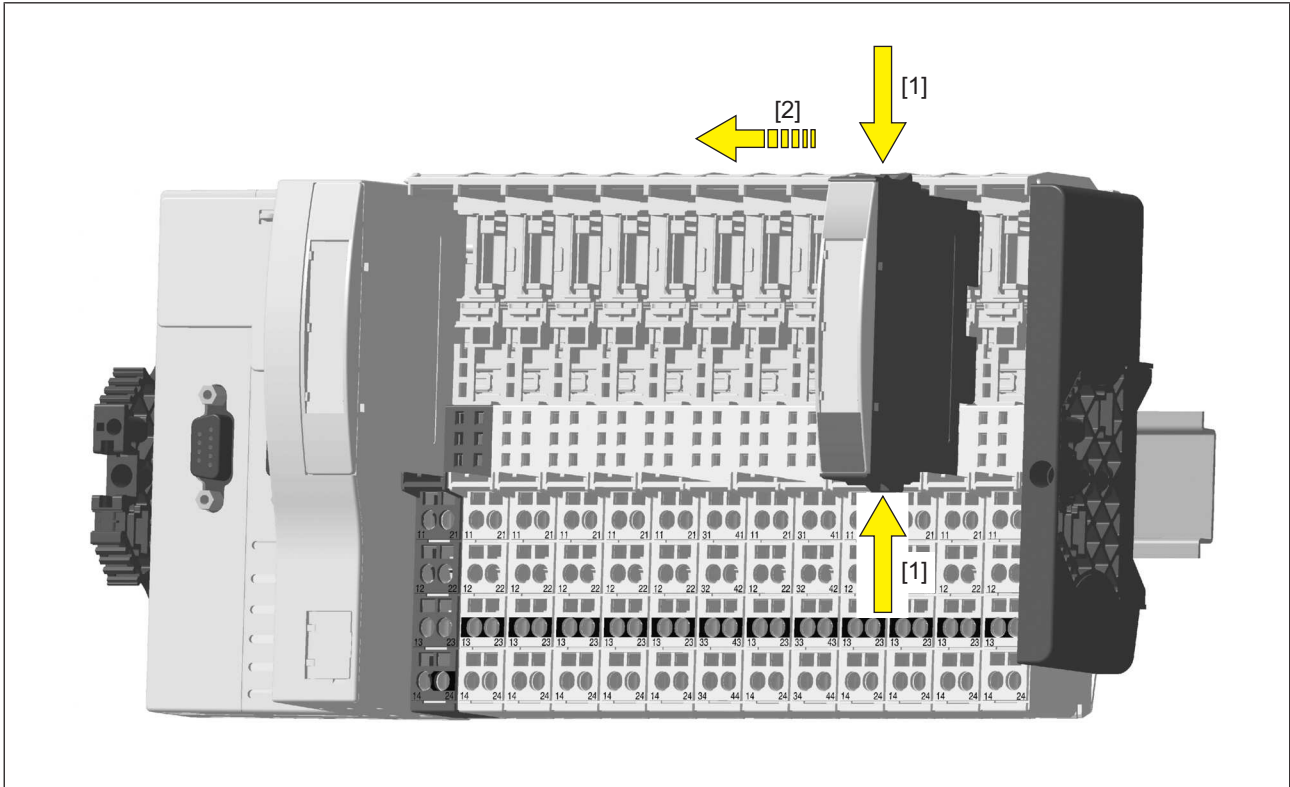


5.3.2 Removing an electronic module

Procedure:

- ▶ Press the locking mechanisms [1] together simultaneously.
- ▶ Pull out the electronic module [2].

Schematic representation:



5.3.3 Changing an electronic module during operation

It is possible to change an electronic module during operation. The configuration data is retained when a module is changed.

Effects:

- ▶ System environment A:
 - In the event of a potential FS communication error, the FS section of the PSSu system and all relevant I/O-Groups (SafetyBUS p) switch to a STOP condition.
- ▶ System environment B:
 - All FS hardware outputs on the PSSu system switch to a safe condition.
 - The substitute values are used for the modules' FS outputs, with Valid Bits = FALSE.



CAUTION!

Sparking can cause interference and errors!

Only change the module when the load is switched off!

6 Wiring

6.1 General wiring guidelines

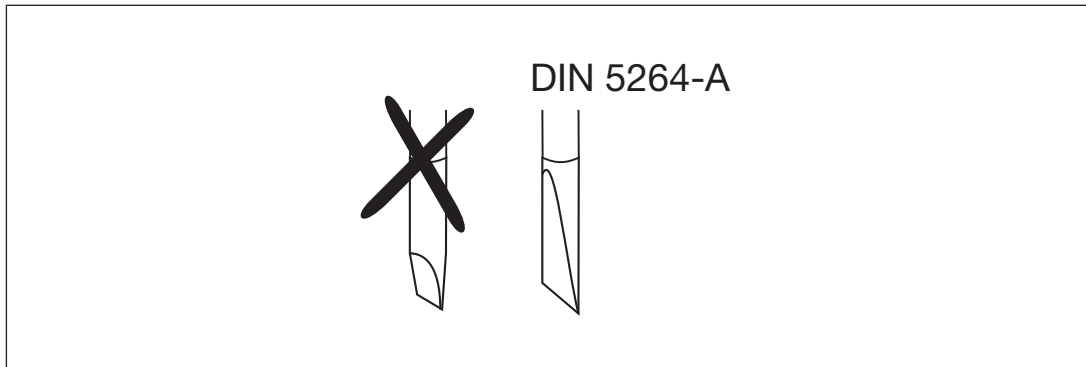
Please note:

- ▶ Signal lines do not have to be shielded.
- ▶ The terminal configuration as stated on the front plate applies for base modules without C-rail. The terminal configuration as stated in the technical documentation applies for all other base modules.

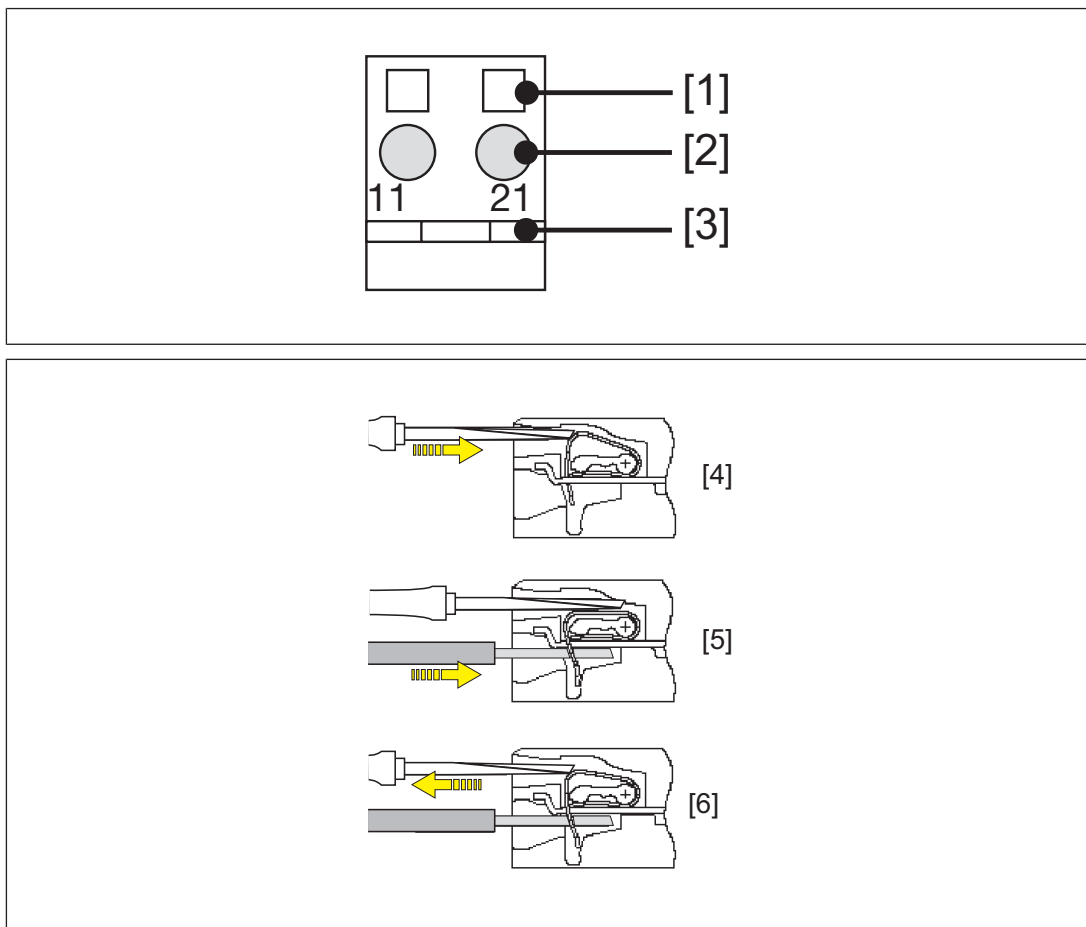
6.1.1 Mechanical connection of the base modules

Procedure:

- ▶ Use a flat blade screwdriver (DIN 5264-A)!



- ▶ Strip the wire back 8 mm.
- ▶ If necessary, label the connection level with a colour marker [3].
- ▶ Base module with screw terminals:
 - Use a screwdriver to loosen the screw on the screw terminal [1]
 - Insert the stripped cable into the round fixing hole [2], as far as it will go.
 - Tighten up the screw on the screw terminal.
 - Check that the cable is firmly seated.
- ▶ Base module with cage clamp terminals:
 - Insert the screwdriver [4] into the square hole [1].
 - Insert the stripped cable into the round fixing hole [2], as far as it will go [5].
 - Pull out the screwdriver [6].
 - Check that the cable is firmly seated.



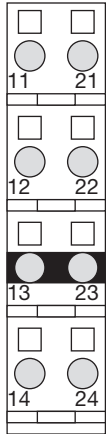
Please note:

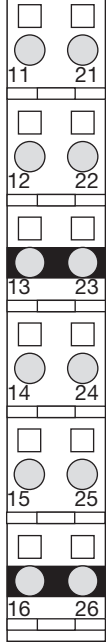
- ▶ The minimum cable cross section for field connection terminals on the base modules is 0.14 mm² (AWG26).
- ▶ The maximum cable cross section for field connection terminals is:
 - Digital inputs: 1.5 mm² (AWG16)
 - Digital outputs: 2.0 mm² (AWG14)
 - Inputs/outputs on the counter modules: 1.5 mm² (AWG16)
 - Analogue inputs/outputs: 1.5 mm² (AWG16)
 - Communication cables: 1.5 mm² (AWG16)
 - Test pulse outputs: 1.5 mm² (AWG16)
 - Power supply: 2.5 mm² (AWG12)
 - Functional earth: 2.5 mm² (AWG12)
- ▶ On base modules with screw terminals:
 - If you use a multi-strand cable to connect the I/Os, it is recommended that you use ferrules conforming to Parts 1 and 2 of DIN 46228, 0.14 ... 1.5 mm², Form A or C, although this is not essential. To crimp the ferrules you can use crimp pliers (crimp form A or C) conforming to EN 60947-1, such as the PZ 1.5 or PZ 6.5 from Weidmüller, for example.
 - Maximum torque setting: 0.8 Nm

► Use copper wiring.

6.2 Terminal configuration

| Base module | Terminal configuration | |
|--|--|--|
| <p>Screw terminals: PSSu BP 1/8 S PSSu BP 1/8 S-T</p> <p>Cage clamp terminals: PSSu BP 1/8 C PSSu BP 1/8 C-T</p> | <p>Without C-rail:</p> <p>11: Input I0</p> <p>21: Input I1</p> <p>12-22: +24 V output (periphery supply, 12-22 linked within the base mod- ule)</p> <p>13-23: +24 V output (periphery supply, 13-23 linked within the base mod- ule)</p> <p>14: Input I2</p> <p>24: Input I3</p> | |

| Base module | Terminal configuration | |
|--|---|---|
| <p>Screw terminals: PSSu BP-C 1/8 S PSSu BP-C 1/8 S-T</p> <p>Cage clamp terminals: PSSu BP-C 1/8 C PSSu BP-C 1/8 C-T</p> | <p>With C-rail:</p> <p>11: Input I0</p> <p>21: Input I1</p> <p>12-22: +24 V output (periphery supply, 12-22 linked within the base mod- ule)</p> <p>13-23: C-rail supply (13-23 linked within the base module)</p> <p>14: Input I2</p> <p>24: Input I3</p> |  |

| Base module | Terminal configuration | |
|--|---|---|
| <p>Screw terminals: PSSu BP-C1 1/12 S PSSu BP-C1 1/12 S-T</p> <p>Cage clamp terminals: PSSu BP-C1 1/12 C PSSu BP-C1 1/12 C-T</p> | <p>With C-rail:</p> <p>11: Input I0</p> <p>21: Input I1</p> <p>12-22: +24 V output (periphery supply, 12-22 linked within the base module)</p> <p>13-23: C-rail supply (13-23-16-26 linked within the base module)</p> <p>14: Input I2</p> <p>24: Input I3</p> <p>15-25: +24 V output (periphery supply, 15-25 linked within the base module)</p> <p>16-26: C-rail supply (13-23-16-26 linked within the base module)</p> |  |

6.3 Connecting the module

| Input circuit | Single-channel input device | Single-channel input device |
|--|-----------------------------|-----------------------------|
| <p>Input devices supplied via the periphery supply</p> | | |

7 Operation

7.1 Messages

A module error is displayed via the "Err" LED (see section entitled "Display elements"). It is signalled to the head module and then entered in the

- ▶ Error stack, with PSSu in system environment A
- ▶ Diagnostic log, with PSSu in system environment B.

of the head module.

The module can detect the following errors:

| Module error | Explanation | Remedy |
|------------------------|---|---|
| Start-up error | Error as the PSSu system starts up. | Change faulty module. |
| Configuration error | Incorrect module type configured. | The configured hardware registry does not match the actual hardware registry. |
| ST communication error | Error in ST communication with the head module. | Change faulty module. |
| Bus termination error | There is no end bracket. | Install a terminating plate with integrated end angle. |

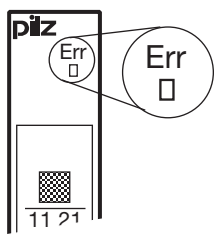


7.2 Display elements

Legend

-  LED on
-  LED off

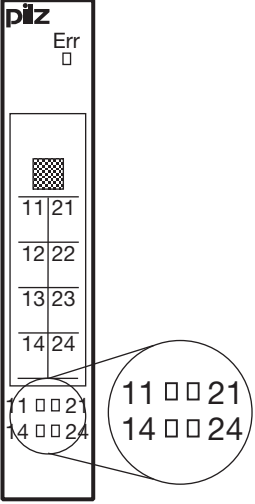
7.2.1 Display elements for module diagnostics

The module has an LED for displaying module errors ("Err" LED).

|  | LED | | | Meaning |
|---|------|---|---|----------|
| | Name | Colour | Status | |
| | Err | --- |  | No error |
| | Red |  | Module error | |

7.2.2 Display elements for input status

Each input is assigned an LED for displaying the input status (LEDs “11”, “21”, “14” and “24”).

|  | LED | | | Meaning | | |
|---|-------------|--------|----------|-----------------|-------|----------|
| | Designation | Colour | Status | Signal | Input | Terminal |
| 11 | --- | ● | 0 signal | I0 (Input 1) | 11 | |
| | Green | ☀ | 1 signal | | | |
| 21 | --- | ● | 0 signal | I1 (Input 2) | 14 | |
| | Green | ☀ | 1 signal | | | |
| 14 | --- | ● | 0 signal | I2 (Input 3) | 21 | |
| | Green | ☀ | 1 signal | | | |
| 24 | --- | ● | 0 signal | I3 (Input 4) | 24 | |
| | Green | ☀ | 1 signal | | | |

8 Technical details

| General | 312400 | 314400 |
|---|--|------------------------------------|
| Certifications | BG, CE, TÜV, UKCA, cULus Listed | CE, TÜV, UKCA, cULus Listed |
| Application range | Standard | Standard |
| Module's device code | 0200h | 0200h |
| Number of ST input bits | 4 | 4 |
| Application in system environment A | | |
| From ST firmware version, other head modules | 5 | 5 |
| From ST firmware version PSSu H S PN | 1 | – |
| From ST firmware version PSSu WR S IDN | 1 | 1 |
| Application in system environment B | | |
| From ST firmware version, head modules | 1.0.0 | 1.3.0 |
| Electrical data | 312400 | 314400 |
| Internal supply voltage (module supply) | | |
| Module's power consumption | 0,12 W | 0,12 W |
| Periphery's supply voltage (periphery supply) | | |
| Voltage range | 16,8 - 30 V | 16,8 - 30 V |
| Module's current consumption with no load | 0 mA | 0 mA |
| Module's power consumption with no load | 0,00 W | 0,00 W |
| Max. power dissipation of module | 1,5 W | 1,5 W |
| Inputs | 312400 | 314400 |
| Number | 4 | 4 |
| Voltage at inputs | 24 V DC | 24 V DC |
| Input current at rated voltage | 6 mA | 6 mA |
| Input current range | 3 - 10 mA | 3 - 10 mA |
| Min. threshold voltage when signal changes from "1" to "0" | 8 V | 8 V |
| Max. threshold voltage when signal changes from "0" to "1" | 10 V | 10 V |
| Max. processing time of input when signal changes from "1" to "0" | 4 ms | 4 ms |
| Max. processing time of input when signal changes from "0" to "1" | 4 ms | 4 ms |
| Min. processing time of input when signal changes from "1" to "0" | 3 ms | 3 ms |

| Inputs | 312400 | 314400 |
|---|---|---|
| Min. processing time of input when signal changes from "0" to "1" | 3 ms | 3 ms |
| Potential isolation between input and internal module bus voltage | yes | yes |
| Environmental data | 312400 | 314400 |
| Climatic suitability | EN 60068-2-1, EN 60068-2-14, EN 60068-2-2, EN 60068-2-30, EN 60068-2-78 | EN 60068-2-1, EN 60068-2-14, EN 60068-2-2, EN 60068-2-30, EN 60068-2-78 |
| Ambient temperature | | |
| In accordance with the standard | EN 60068-2-14 | EN 60068-2-14 |
| Temperature range | 0 - 60 °C | -40 - 70 °C |
| Storage temperature | | |
| In accordance with the standard | EN 60068-2-1/-2 | EN 60068-2-1/-2 |
| Temperature range | -25 - 70 °C | -40 - 70 °C |
| Climatic suitability | | |
| In accordance with the standard | EN 60068-2-30, EN 60068-2-78 | EN 60068-2-30, EN 60068-2-78 |
| Humidity | 93 % r. h. at 40 °C | 93 % r. h. at 40 °C |
| Condensation during operation | Not permitted | Short-term |
| Max. operating height above sea level | 2000 m | 5000 m |
| EMC | EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-4 | EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-2, EN 61000-6-4 |
| Vibration | | |
| In accordance with the standard | EN 60068-2-6 | EN 60068-2-6 |
| Frequency | 10 - 150 Hz | 10 - 150 Hz |
| Amplitude | 0,35 mm | 0,35 mm |
| Acceleration | 1g | 1g |
| Broadband noise | | |
| In accordance with the standard | – | EN 60068-2-64 |
| Frequency | – | 5 - 500 Hz |
| Acceleration | – | 1,9grms |
| Shock stress | | |
| In accordance with the standard | EN 60068-2-27 | EN 60068-2-27 |
| Number of shocks | 6 | 6 |
| Acceleration | 15g | 15g |
| Duration | 11 ms | 11 ms |
| In accordance with the standard | EN 60068-2-27 | EN 60068-2-27 |
| Number of shocks | 1000 | 1000 |
| Acceleration | 10g | 10g |
| Duration | 16 ms | 16 ms |
| Airgap creepage | | |
| In accordance with the standard | EN 60664-1 | EN 60664-1 |
| Overvoltage category | II | II |
| Pollution degree | 2 | 2 |

| Environmental data | 312400 | 314400 |
|--------------------------------------|------------------|------------------|
| Protection type | | |
| In accordance with the standard | EN 60529 | EN 60529 |
| Housing | IP20 | IP20 |
| Terminals | IP20 | IP20 |
| Mounting area (e.g. control cabinet) | IP54 | IP54 |
| Mechanical data | 312400 | 314400 |
| Material | | |
| Bottom | PC | PC |
| Front | PC | PC |
| Coding | PA | PA |
| Mounting type | plug-in | plug-in |
| Dimensions | | |
| Height | 76 mm | 76 mm |
| Width | 12,6 mm | 12,6 mm |
| Depth | 60,2 mm | 60,2 mm |
| Weight | 31 g | 31 g |
| Mechanical coding | | |
| Type | A | A |
| Colour | Dark grey | Dark grey |

Where standards are undated, the 2005-04 latest editions shall apply.

9 Supplementary data

9.1 Permitted operating height

The values stated in the technical details apply to the use of the device in operating heights up to max. 2000 m above SL. When used at higher levels, restrictions of the ambient temperature (standard IEC 61131-2) must be taken into account.

| Operating height above SL [m] | Multiplication factors for the devices' ambient temperature |
|-------------------------------|---|
| 0 ... 2000 | 1.0 |
| 3000 | 0.9 |
| 4000 | 0.8 |
| 5000 | 0.7 |

10 Order reference

10.1 Product

| Product type | Features | Order no. |
|----------------|------------------------------|-----------|
| PSSu E S 4DI | Electronic module, base type | 312400 |
| PSSu E S 4DI-T | Electronic module, T-type | 314400 |

10.2 Accessories

Base modules

| Product type | Features | Order no. |
|---------------------|--|-----------|
| PSSu BP 1/8 S | Base module without C-rail with screw terminals | 312600 |
| PSSu BP 1/8 S-T | Base module without C-rail with screw terminals, T-type | 314600 |
| PSSu BP 1/8 C | Base module without C-rail with cage clamp terminals | 312601 |
| PSSu BP 1/8 C-T | Base module without C-rail with cage clamp terminals, T-type | 314601 |
| PSSu BP-C 1/8 S | Base module with C-rail and screw terminals | 312610 |
| PSSu BP-C 1/8 S-T | Base module with C-rail and screw terminals, T-type | 314610 |
| PSSu BP-C 1/8 C | Base module with C-rail and cage clamp terminals | 312611 |
| PSSu BP-C 1/8 C-T | Base module with C-rail and cage clamp terminals, T-type | 314611 |
| PSSu BP 1/12 S | Base module without C-rail with screw terminals | 312618 |
| PSSu BP 1/12 S-T | Base module without C-rail with screw terminals, T-type | 314618 |
| PSSu BP 1/12 C | Base module without C-rail with cage clamp terminals | 312619 |
| PSSu BP 1/12 C-T | Base module without C-rail with cage clamp terminals, T-type | 314619 |
| PSSu BP-C1 1/12 S | Base module with C-rail and screw terminals | 312622 |
| PSSu BP-C1 1/12 S-T | Base module with C-rail and screw terminals, T-type | 314622 |
| PSSu BP-C1 1/12 C | Base module with C-rail and cage clamp terminals | 312623 |
| PSSu BP-C1 1/12 C-T | Base module with C-rail and cage clamp terminals, T-type | 314623 |

► Support

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