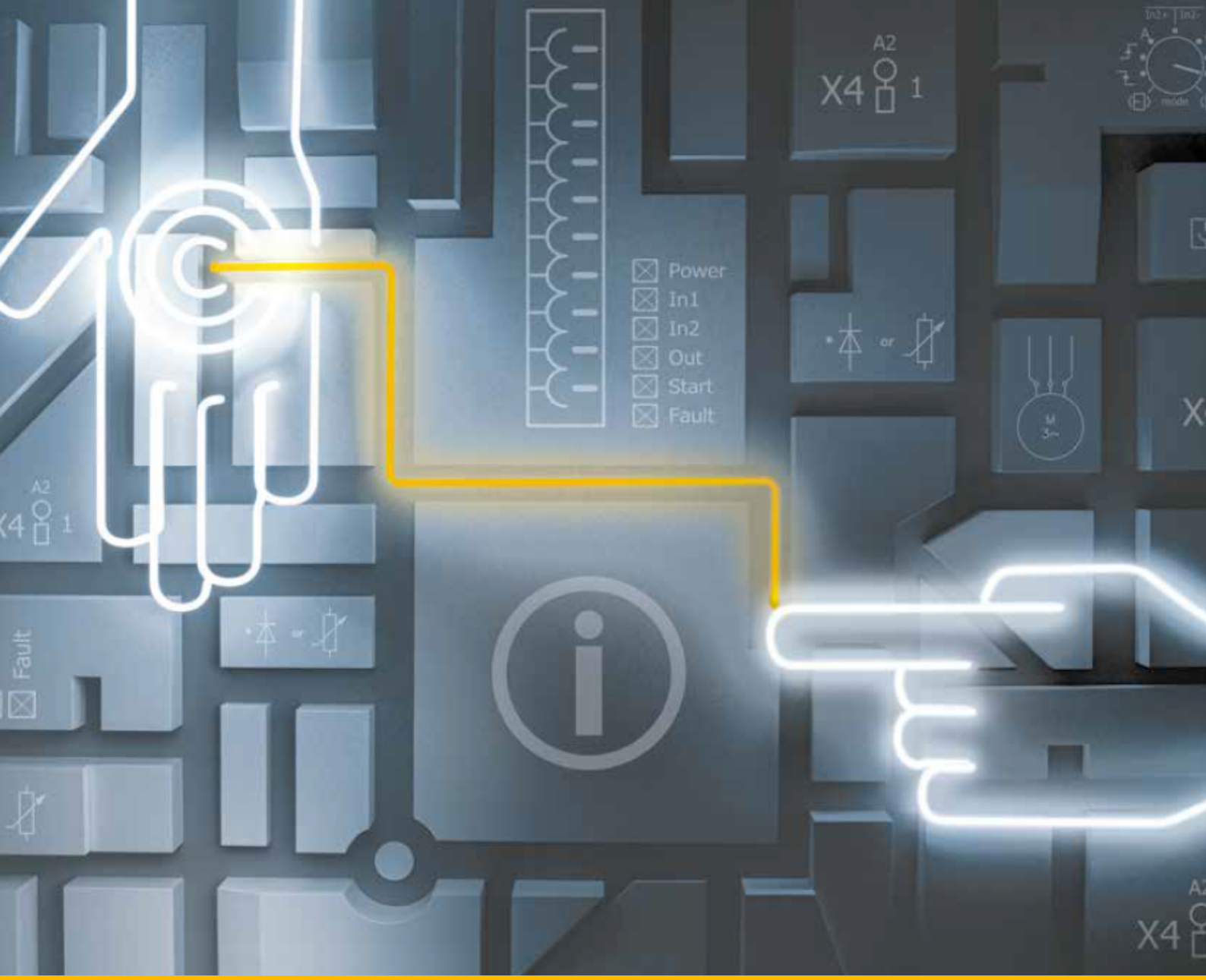


PSS u2 ES PSP (-R)

PILZ
THE SPIRIT OF SAFETY

Operating Manual-1003765-EN-05

- PSS u2 in the automation system PSS 4000
- Remote I/O system PSS u2

This document is the original document.

Where unavoidable, for reasons of readability, the masculine form has been selected when formulating this document. We do assure you that all persons are regarded without discrimination and on an equal basis.

1 Introduction

1.1 Using the documentation

This document is intended for instruction. Only install and commission the product if you have read and understood this document. The document should be retained for future reference.

1.2 Validity of documentation

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

This documentation is valid for the product PSS u2 ES PSP from version HW 01.00, FW 01.01.00. It is valid until new documentation is published.

This documentation is valid for the product PSS u2 ES PSP -**R** from version HW 01.00, FW 01.01.00. It is valid until new documentation is published.

1.3 Terminology

PSS u2 system

System from a PSS u2 head module and PSS u2 electronic modules.

Remote I/O system PSS u2

PSS u2 system without control functionality that provides I/Os. The I/Os can be controlled via a fieldbus.

The configuration is performed in the tool PASconfig.

PSS u2 in the automation system PSS 4000

PSS u2 system with control functionality that can be used in the automation system PSS 4000. A PSS u2 system is a 2nd generation device in the automation system PSS 4000.

The configuration is performed in the tool PAS4000.

1.4 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.

1.5 Third-party manufacturer licence information

This product includes Open Source software with various licenses.

Further information is available in the document "Third-party manufacturer licence information PSS u2 ES PSP (-R)" (document number 1006610) at .www.pilz.com.

2 Overview

Module structure:

A module consists of

- an electronic module,
- a terminal block with cage clamp terminals and
- a module carrier

The electronic modules are plugged into the backplane and determine the function. The backplane is used for communication between the head module and the electronic modules and forms the carrier unit for the electronic modules. The terminal block is plugged into the electronic modules and is used to connect the field wiring.

Details of the terminal blocks that can be used are available under "Intended Use".

2.1 Module features

Application of the product PSS u2 ES PSP (-R):

Electronic module to supply the PSS u2 system with periphery supply.

The product has the following features:

- Infeed for periphery supply
- Monitoring of maximum current load of periphery supply
- Status LED display for:
  - Periphery supply
  - Module error
- Energy-saving functions
- **R-type**:
  For railway applications (increased environmental requirements)

3 Safety

3.1 Intended use

The module PSS u2 ES PSP (-R) may be used in the following PSS u2 systems (see Terminology [📖 5]):

- Remote I/O system PSS u2
- PSS u2 in the automation system PSS 4000 (generation 2)

Install the module/the safety controller in a protected environment. Example: Protected inside space or control cabinet with protection class see Technical details [📖 28]. Make sure that only authorised personnel have access to the safety controller.

Intended use includes making the electrical installation EMC-compliant. The module is designed for use in an industrial environment. Interference may occur if used in other areas.

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.

The module PSS u2 ES PSP (-R) may be used in conjunction with the following terminal block:

- 8-pin terminal block

Module for railway applications R-type

Module PSS u2 ES PSP **-R**

- The module is suitable for use in railway applications (where there are increased environmental requirements) (see Technical details [📖 28]).
- Condensation during operation is permitted for the module.
- The module must only be installed on the carrier module PSS u2 B 4 **-R**.
- Interference voltage on the supply lines

  The user must employ additional measures on the supply voltage input to ensure compliance with the limit values for the conducted noise emission in accordance with EN 50121-4:2016 + A1:2019. Compliance with the limit values is achieved by connecting a noise suppression filter between the external power supply and the supply voltage input, for example, a type FN2070-3-.. mains filter from Schaffner is used, or a noise suppression filter with comparable characteristics.

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 [📖 31]).

3.2 System requirements (remote I/O system PSS u2)

INFORMATION

The module is supported by

- PASconfig from Version 3.0.0
  - We recommend that you always use the latest version (download from www.pilz.com).

3.3 System requirements (PSS u2 in automation system PSS 4000)

INFORMATION

The module is supported by

- PAS4000, from Version 1.25.0
  - We recommend that you always use the latest version (download from www.pilz.com).

3.4 Safety regulations

3.4.1 Additional documents that apply

Please read and take note of the following documents:

- Installation Manual remote I/O system PSS u2 (1004152)
- Installation Manual PSS u2 in the automation system PSS 4000 (1006253)
- System Description PSS 4000 (1001467)
- Safety Manual PSS 4000 (1001468)

With railway applications it also important to note:

- System description safety architectures for railway applications (1006614)

You will need to be conversant with the information in these documents in order to fully understand this operating manual.

3.4.2 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. In order to inspect, assess and handle products, devices, systems, plant and machinery, this person must be familiar with 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.

3.4.3 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.).

3.4.4 Disposal

- When decommissioning, please comply with local regulations regarding the disposal of electronic devices (e.g. Electrical and Electronic Equipment Act).

4 Security

To secure plants, systems, machines and networks against cyberthreats it is necessary to implement (and continuously maintain) an overall industrial security concept that is state of the art.
Perform a risk assessment in accordance with VDI/VDE 2182 or IEC 62443-3-2 and plan the security measures with care. If necessary, seek advice from Pilz Customer Support.

4.1 Security (remote I/O system PSS u2)

Further information on Security can be found in the operating manuals of the relevant head modules.

4.2 Security (PSS u2 in the automation system PSS 4000)

Further information on Security can be found in the system description PSS 4000 (1001467).

5 Function description

5.1 Block diagram

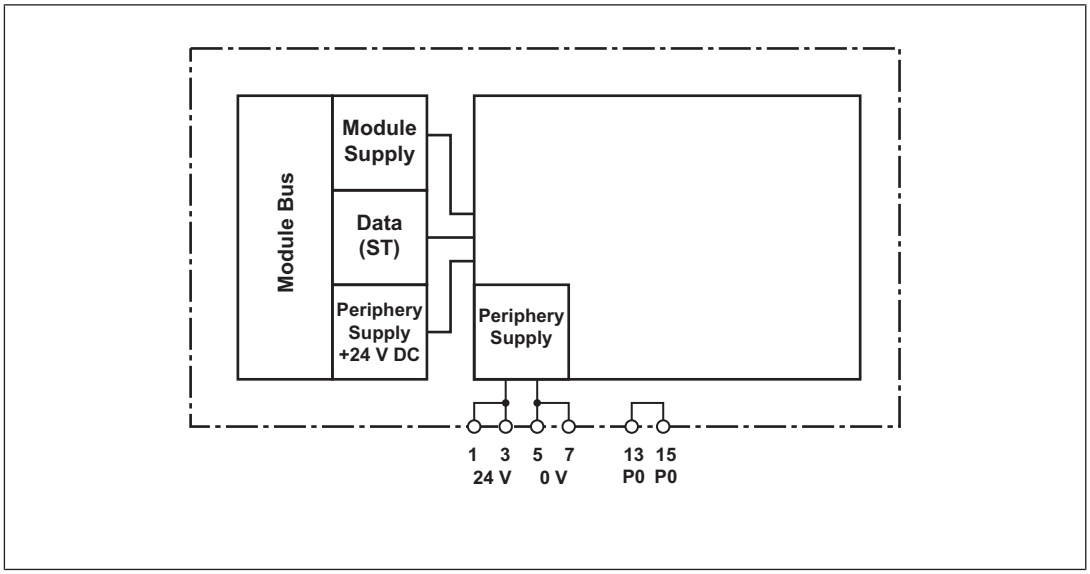


Fig.: Block diagram PSS u2 ES PSP (-R)

5.2 Supply

- The module is supplied with voltage via the head module/main voltage supply PSS u2 PS1 -R connected to the head module.
- The module refreshes the periphery supply for adjacent modules on the right.

5.2.1 Current load capacity

Ensure you comply with the current load capacity of the periphery supply (see "Technical details [📖 28]"). If the current load is higher, an additional supply voltage module is required to refresh the periphery supply.

- Periphery supply

  The current load is the total current consumption of the sensors, actuators and test pulses supplied via the input/output modules.

  The periphery supply switches off if the level drops below 14 V. The periphery supply does not switch off automatically if levels drop below the limit values. However, the red LED flashes and a message is entered in the diagnostic log.

5.3 Energy-saving functions

The energy-saving levels are controlled by the head module and are not configurable. The module supports the following energy-saving levels:

- Switching off the LEDs
  - The LED that displays module status is switched off.
- Standby mode
  - All module functions are inactive.
  - The LEDs that displays module status are switched off.

5.4 Integrated protection mechanisms

The module has the following protection mechanisms:

- Periphery supply
  - Voltage monitoring

    The periphery supply switches off if the level drops below 14 V.

    The resulting diagnostic message can be switched off in the configuration tool (see Display elements and messages [📖 26]).

6 Structure of the process image (Remote I/O system PSS u2)

When the electronic module is used in the remote I/O system, the data described below are available.

FS-PII

The module occupies 1 Byte in the process image of inputs.

Byte	Bit	Meaning
0	0	Status bits of the periphery supply (Bit 0 and Bit 1) 00: not relevant 01: Undervoltage detected 10: Periphery supply within the permitted range 11: Overvoltage detected
0	1	
0	2	Not assigned
0	3	Switched on bit 0: Periphery supply switched off 1: Periphery supply switched on
0	4	Not assigned
0	5	Overcurrent bit 0: No overcurrent 1: Overcurrent detected
0	6	External supply bit 0: No external supply on the backplane 1: External supply detected on the backplane
0	7	Voltage tolerance bit 0: Periphery supply is outside the voltage tolerance 1: Periphery supply is within the voltage tolerance

7 I/O data of the module (PSS u2 in the automation system PSS 4000)

When the electronic module for PSS u2 is used in the automation system PSS 4000, the data described below are available.

7.1 Available I/O data in the I/O mapping

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

I/O data name	I/O data type	Data element: Data type	Meaning
PSPDiagnostics	ST_I_PSP_DIAG	Status: ARRAY[0..1] OF BOOL	Status bits of the periphery supply (Bit 0 and Bit 1) 00: not relevant 01: Undervoltage detected 10: Periphery supply within the permitted range 11: Overvoltage detected
		SwitchedOn: BOOL	Switched on bit 0: Periphery supply switched off 1: Periphery supply switched on
		Overcurrent: BOOL	Overcurrent bit 0: No overcurrent 1: Overcurrent detected
		ExtSupplyDetected: BOOL	External supply bit 0: No external supply on the backplane 1: External supply detected on the backplane
		VoltageOK: BOOL	Voltage tolerance bit 0: Periphery supply is outside the voltage tolerance 1: Periphery supply is within the voltage tolerance

7.2 Other I/O data

In addition to the I/O data available via I/O mapping, it is possible to access further I/O data in the user program:

- Valid bit of the date *PSPDiagnostics*

In the Multi programming, access is via the PSS 4000 system control block "Valid".

In IEC 61131 programming, access is via the variable extension "WITH VALID".

8 Installation

8.1 General installation guidelines

NOTICE

R-type electronic modules may only be installed on R-type backplanes.

CAUTION!

Risk of material damage

The incorrect ambient temperature during assembly/dismantling can lead to material damage.

– Comply with the permitted ambient temperature for assembly/dismantling: -20°C … +45°C

CAUTION!

Risk of material damage

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.

8.1.1 Dimensions

The dimensions include the backplane, electronic module and terminal block.

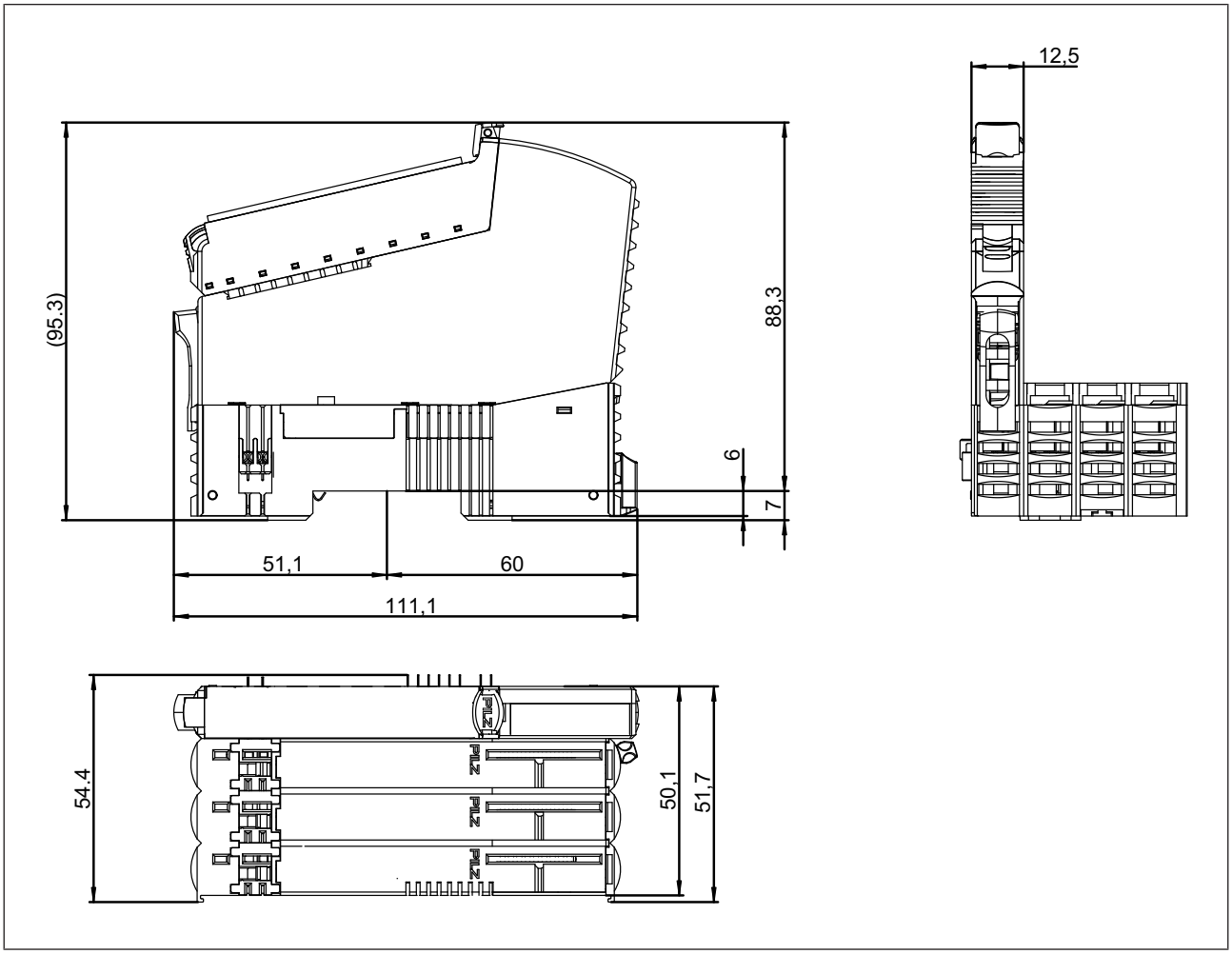


Fig.: Dimensions in mm, including backplane, electronic module and terminal block

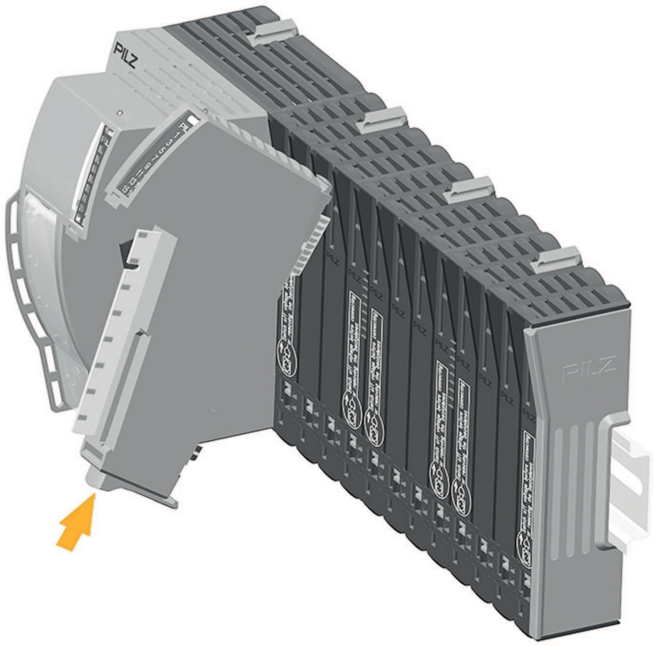
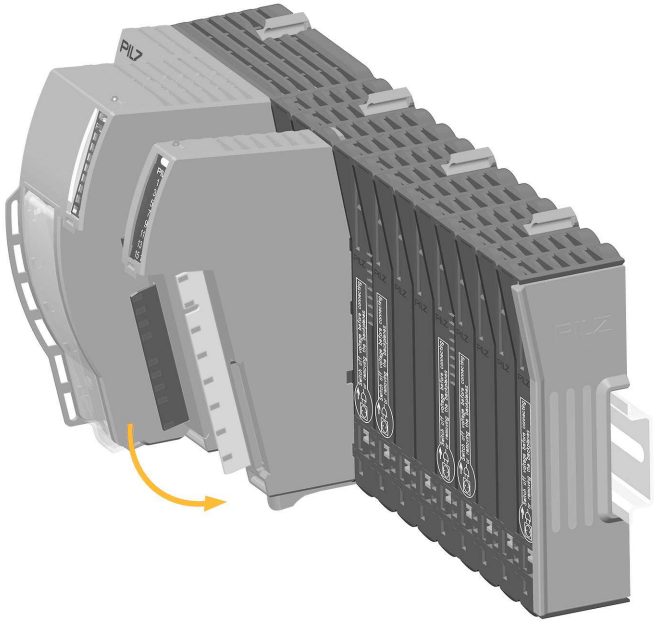
8.2 Inserting and removing an electronic module

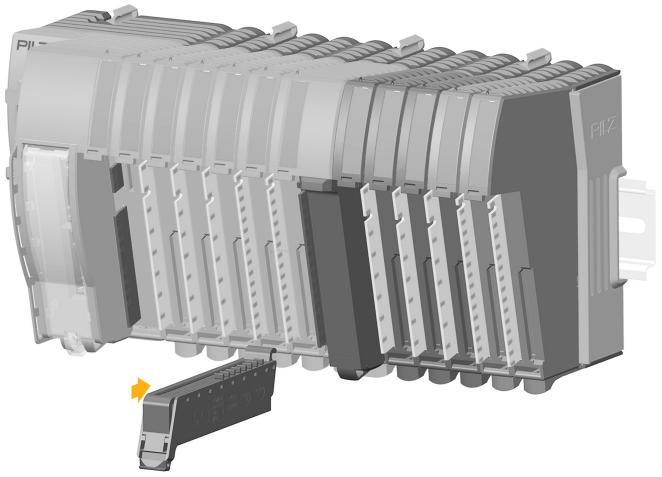
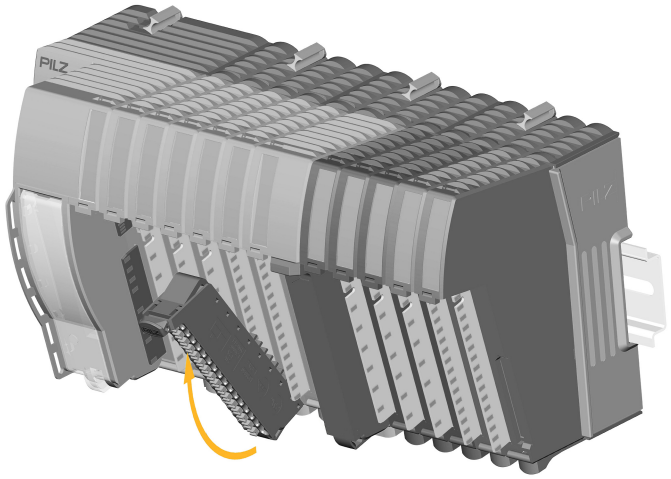
Please note:

- Backplane must be installed first.
- Electronic modules may only be plugged or unplugged if the terminal block has been removed first.
- The module may only be inserted if the connection to the left-hand modules has already been interrupted on the backplane. The procedure is described in the operating manual "PSS u2 B 1/B 4 (-R)" for the backplane, described in the chapter "Form supply groups".
- The mechanics of the electronic modules are designed for 20 plug in/out cycles.

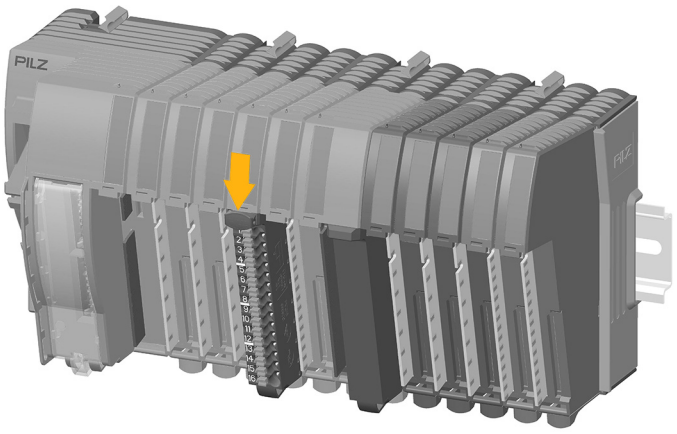
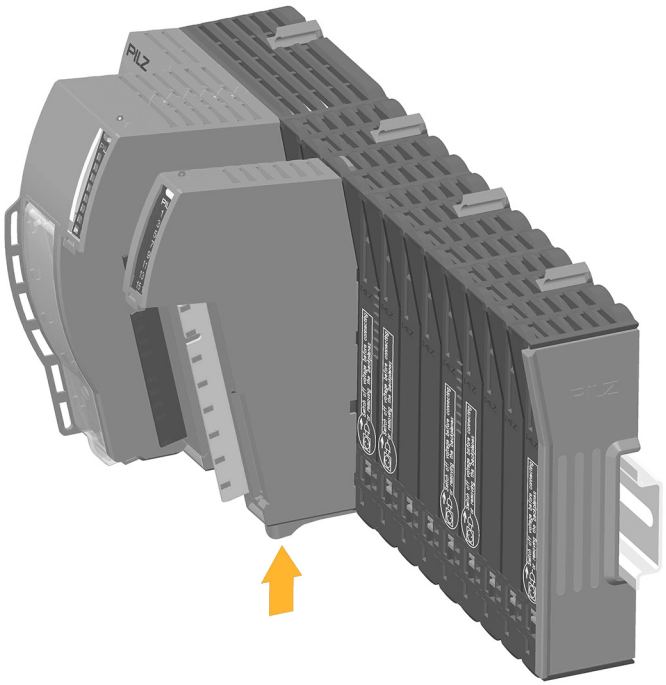
The following illustrations in chapters "Inserting an electronic module", "Removing an electronic module" and "Changing an electronic module during operation" are displayed as an example in the remote I/O system PSS u2 (see Terminology [📖 5]).

8.2.1 Inserting an electronic module

1. Insert the electronic module into the suspension lug on the backplane.	
2. Swivel the electronic module downwards until you hear it click into place.	

3. Insert the terminal block into the suspension lug on the module.	
4. Swivel the terminal block upwards until you hear it click into place.	

8.2.2 Removing an electronic module

1. Press the unlocking mechanism on the terminal block that is shown by the arrow and pull off the terminal block forward.	
2. Press the unlocking mechanism that is shown by the arrow and pull off the electronic module upwards.	

8.2.3 Changing an electronic module during operation

An electronic module can be hot swapped.

Effects:

- Module bus communication between the other modules is not interrupted.
- The configuration data is retained.
- The module is detected automatically as soon as the module is re-inserted.

Procedure:

1. Removing an electronic module
2. Inserting an electronic module

A new electronic module can be inserted during operation.

Procedure:

- Inserting an electronic module

Effects:

- Module bus communication between the other modules is not interrupted.
- To detect the new module the following steps can be necessary:
  - Creating a new configuration or changing an existing configuration
  - Download of the configuration to the head module
  - Restart of the head module. After a restart, the system behaves as after a warm reset using a reset pushbutton (see operating manual of the head module, chapter “Reset pusbutton", section "Carrying out a warm reset (restart)").

9 Wiring

9.1 General wiring guidelines

Please note:

- The requirements of the supply voltages can be found under "Technical details [📖 28]".
- Protective separation must be ensured for the external power supplies that generate the supply voltages. Failure to do so could result in electric shock.
- The supply voltages must be extra low voltages with safe electrical separation (PELV or SELV). The external power supplies must comply with EN 62368-1 and EN 61010-2-210.
- Please note that the normative requirements with a power failure of the supply voltage for module supply are fulfilled when using buffered external power supplies for creating the supply voltage.
- Connect the supply voltage correctly polarised.
- The maximum current load on the backplane for the periphery supply is 8 A.
- Earth the 0 V supply on the periphery supply or monitor each supply group for earth faults.
- The connection of the 0 V supply net to the central earth bar or earth fault monitoring must be in accordance with relevant national regulations (e.g. EN 60204-1).
- The minimum range for conductor cross sections on connection terminals can be found in chapter Connection mechanism for terminal blocks.
- Use copper wiring.

9.1.1 Connection mechanism for terminal blocks

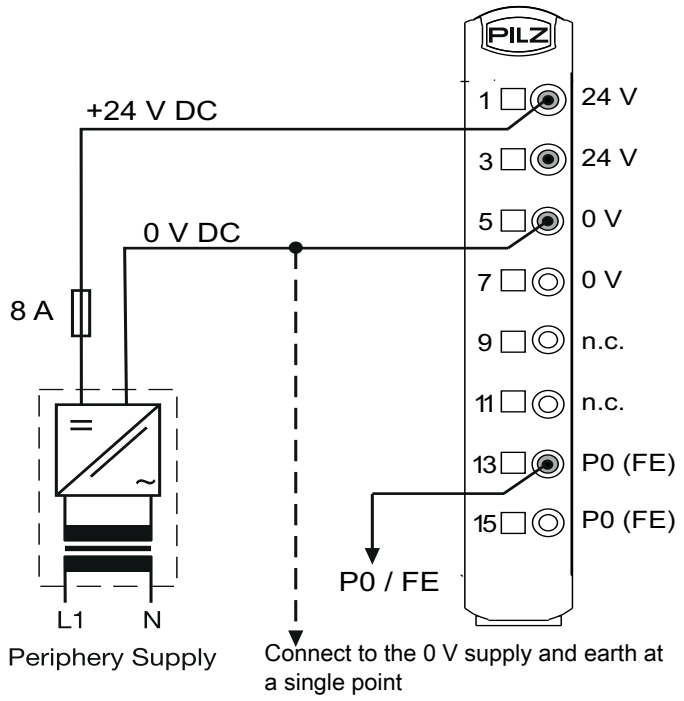
Please note:

- The minimum cable cross section for field connection terminals on the terminal blocks is 0.15 mm^2 (AWG26).
- The maximum cable cross section for field connection terminals on the terminal blocks is 1.5 mm^2 with ferrules (AWG14)
- Use copper wiring.

Procedure:

- Use a flat head screwdriver.
- Strip the wire back 9 mm.
- Feed the stripped cable as far as it will go into the opening for the spring-loaded terminal.
- Check that the cable is firmly seated.

9.2 Terminal configuration

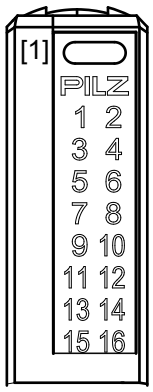
Terminals	Connection
1 – 3: 24 V 5 – 7: 0 V 13 – 15: P0	

The module's supply voltage must be protected with an 8 A fuse.

10 Operation

The status of the module is displayed via the "Module status" LED; this is signalled to the head module and any error is entered in the head module's diagnostic log.

10.1 Display elements and messages



Legend

[1] Module status display

The module can detect the following errors:

LED [1]	Colour LED [1]	Meaning	Further information
●	--	Module not ready for operation	
✳	Green	Module ready for operation	
✳	Green	Module in operation	
✳	Red	Configuration error Module was inserted in the wrong slot.	
✳	Red	Periphery supply fault ▸ Overtemperature[1] ▸ Undervoltage[2] ▸ Overvoltage/overload	See module's diagnostic log
✳	Red	Internal errors	See module's diagnostic log

Legend

✳ LED on

LED flashes

LED flashes

LED off

[1] There are two levels of overtemperature.

- Too warm:

  If the module temperature exceeds a threshold value, then:

  – a warning is sent to the head module.

  If the temperature drops back below the threshold value, the module sends an all-clear.

- Too hot:

  If the module temperature exceeds another threshold value, then:

  – an error message is sent to the head module

  After the "too hot" message has been received, if the temperature drops back below the "too warm" threshold value, the module will switch to an error-free state.

[2] With the supply voltage module it is possible to suppress the diagnostic messages that are displayed with undervoltage of the periphery supply or when the infeed of the periphery supply is missing. When the diagnostic messages are suppressed, the red flashing of the module status LED is also suppressed.

Procedure: PSS u2 in the automation system PSS 4000

- To do this, in the configuration tool PAS4000 in the properties of the module on the ***PSS u2 system*** tab, activate the option ***Suppress message about missing periphery supply***.

Procedure: Remote I/O system PSS u2

- To do this, in the configuration tool PASconfig in the properties of the module activate the option ***Suppress message about missing periphery supply***.

11 Technical details

General	328080	327080
Certifications	CE, EAC, TÜV, UKCA, cULus Listed	CE, TÜV
Application range	Standard	Standard
Module's device code	2001h	2C01h
Electrical data	**328080**	**327080**
Supply voltage		
for	Periphery supply	Periphery supply
Voltage	24 V	24 V
Kind	DC	DC
Voltage tolerance	-30 %/+25 %	-30 %/+25 %
Current load capacity at UB	8 A	8 A
Output of external power supply (DC)	192 W	192 W
Internal supply voltage (module supply)		
Module's power consumption	0,11 W	0,11 W
Periphery's supply voltage (periphery supply)		
Module's power consumption with no load	0,3 W	0,3 W
Max. power dissipation of module	1,5 W	1,5 W
Process data remote IO system PSS u2	**328080**	**327080**
Number of ST input bytes; if the assignment is incomplete, the assigned bits are stated in brackets	1(6)	–
Process data PSS u2 in the automation system PSS 4000	**328080**	**327080**
Number of ST input bits	–	6
Number of ST status bits	–	6
Environmental data	**328080**	**327080**
Application site		
in accordance with the standard	–	EN 50125-3
Application site	–	Track area (1 m - 3 m)
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	-40 - 70 °C	-40 - 70 °C

Environmental data	328080	327080
Climatic suitability		
in accordance with the standard	**EN 60068-2-78**	**EN 60068-2-78**
Humidity	**93 % r. h. at 40 °C**	**95 % r. h. at 40 °C**
Condensation during operation	**Not permitted**	**EN 60068-2-30**
Max. operating height above SL	**2000 m**	**5000 m**
EMC	**EN 61131-2 (Zone B)**	**EN 50121-4, EN 61000-6-2, EN 61000-6-4, EN 61131-2 (Zone B)**
Vibration		
in accordance with the standard	**EN 60068-2-6**	–
Frequency	**8,4 - 150 Hz**	–
Acceleration	**10 m/s²**	–
Broadband noise		
in accordance with the standard	–	**EN 60068-2-64**
Frequency	–	**5 - 2.000 Hz**
Acceleration	–	**2,3 m/s² eff.**
Shock stress		
in accordance with the standard	**EN 60068-2-27**	**EN 60068-2-27**
Number of shocks	**6**	**6**
Acceleration	**150 m/s²**	**20 m/s²**
Duration	**11 ms**	**11 ms**
Airgap creepage		
in accordance with the standard	–	**EN 50124-1**
Overvoltage category	–	**OV2**
Pollution degree	–	**PD2**
in accordance with the standard	**EN 61131-2, UL/IEC 61010-2-201**	**EN 61131-2**
Overvoltage category	**II**	**II**
Pollution degree	**2**	**2**
Protection type		
in accordance with the standard	**EN 60529**	**EN 60529**
Housing	**IP20**	**IP20**
Mounting area (e.g. control cabinet)	**IP54**	**IP51**
Potential isolation	**328080**	**327080**
Potential isolation between	**Periphery supply and module supply**	**Periphery supply and module supply**
Type of potential isolation	**Functional insulation**	**Functional insulation**
Rated surge voltage in operating heights up to max. 2000 m	**2000 V**	**2000 V**
Rated surge voltage in operating heights up to max. 5000 m	–	**1500 V**
Mechanical data	**328080**	**327080**
Material		
Housing	**PC**	**PC**
Mounting type	**plug-in**	**plug-in**

Mechanical data	328080	327080
Dimensions		
Height	**110,8 mm**	**110,8 mm**
Width	**12,5 mm**	**12,5 mm**
Depth	**77 mm**	**77 mm**
Weight	**32 g**	**32 g**

Where standards are undated, the 2020-01 latest editions shall apply.

12 Supplementary data

12.1 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

13 Order reference

13.1 Product

Product type	Features	Order no.
PSS u2 ES PSP	PSS u2, electronic module, standard, supply voltage, infeed periphery supply 24 V DC 8 A, potential separation, to refresh the supply voltage and to form supply groups, 1-row, terminal block PSS u2 T 8 required (not supplied with the device).	328080
PSS u2 ES PSP -R	PSS u2, electronic module, standard, periphery supply 24 V DC 8, potential separation, to refresh the supply voltage and to form supply groups, 1-row, for increased environmental requirements and railway applications, terminal block PSS u2 T 8 required (not supplied with the device).	327080

13.2 Accessories

Terminal block

Product type	Features	Order no.
PSS u2 T 8 (1 pc.)	Terminal block 8-pin, scope of delivery: 1 piece	328840
PSS u2 T 8 (10 pcs.)	Terminal block 8-pin, scope of delivery: 10 pieces	328841
PSS u2 T 8 (5 x 10 pcs.)	Terminal block 8-pin, scope of delivery: 50 pieces	328842

Labelling bracket

Product type	Features	Order no.
PSS u2 A LC E1 (10 pcs.)	Label holder for electronic module 23.5 x 10.5 mm, scope of delivery: 10 pieces	328910
PSS u2 A LC E2 (10 pcs.)	Label holder for electronic module 103 x 10.5 mm, scope of delivery: 10 pieces	328911
PSS u2 A LA E1 (10 pcs.)	Labelling strips for electronic module 23.5 x 10.5 mm (10 x DIN A4 sheet)	328913
PSS u2 A LA E2 (10 pcs.)	Labelling strips for electronic module 103 x 10.5 mm (10 x DIN A4 sheet)	328914

Label holder for terminal block

Product type	Features	Order no.
PSS u2 A LC T3 (10 pcs.)	Label holder for terminal block 61 x 11.5 mm, scope of delivery: 10 pieces	328912

Coding elements

Product type	Features	Order no.
PSS u2 A CE E (10 pcs.)	Coding elements for electronic modules, scope of delivery: 10 pieces	328860

Backplanes

Product type	Features	Order no.
PSS u2 B 1	PSS u2, accessories, backplane, for electronic modules, 1 slot, width 12.6 mm, height 107 mm, note the mounting distances.	328811
PSS u2 B 4	PSS u2, accessories, backplane, for electronic modules, 4 slots, width 50.1 mm, height 107 mm, note the mounting distances.	328810
PSS u2 B 4 -R	PSS u2, accessories, backplane, for electronic modules, 4 slots, for increased environmental requirements and railway applications, width 50.1 mm, height 107 mm, note the mounting distances.	327810

14 EC declaration of conformity PSS u2 ES PSP

This product/these products meet the requirements of the directive 2006/42/EC on machinery of the European Parliament and of the Council. The complete EC Declaration of Conformity is available on the Internet at www.pilz.com/downloads.
Representative: Pilz GmbH & Co. KG, Felix-Wankel-Str. 2, 73760 Ostfildern, Germany

15 UKCA-Declaration of Conformity for PSS u2 ES PSP

This product(s) complies with following UK legislation: Supply of Machinery (Safety) Regulation 2008.
The complete UKCA Declaration of Conformity is available on the Internet at www.pilz.com/downloads.

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We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

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