



► PSSu K S 8DI 8DO 0.5

PILZ
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Operating Manual-22065-EN-11

- 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 product PSSu K S 8DI 8DO 0.5. 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

The module combines the function unit (inputs or outputs) and connection levels in one housing.

Wiring is via 10-pin or 30-pin connectors with spring-loaded terminals, which are plugged into the connector strips on the module.

Details of the applicable connectors with spring-loaded terminals are available in the chapter entitled “Intended Use”.

2.2 Module features

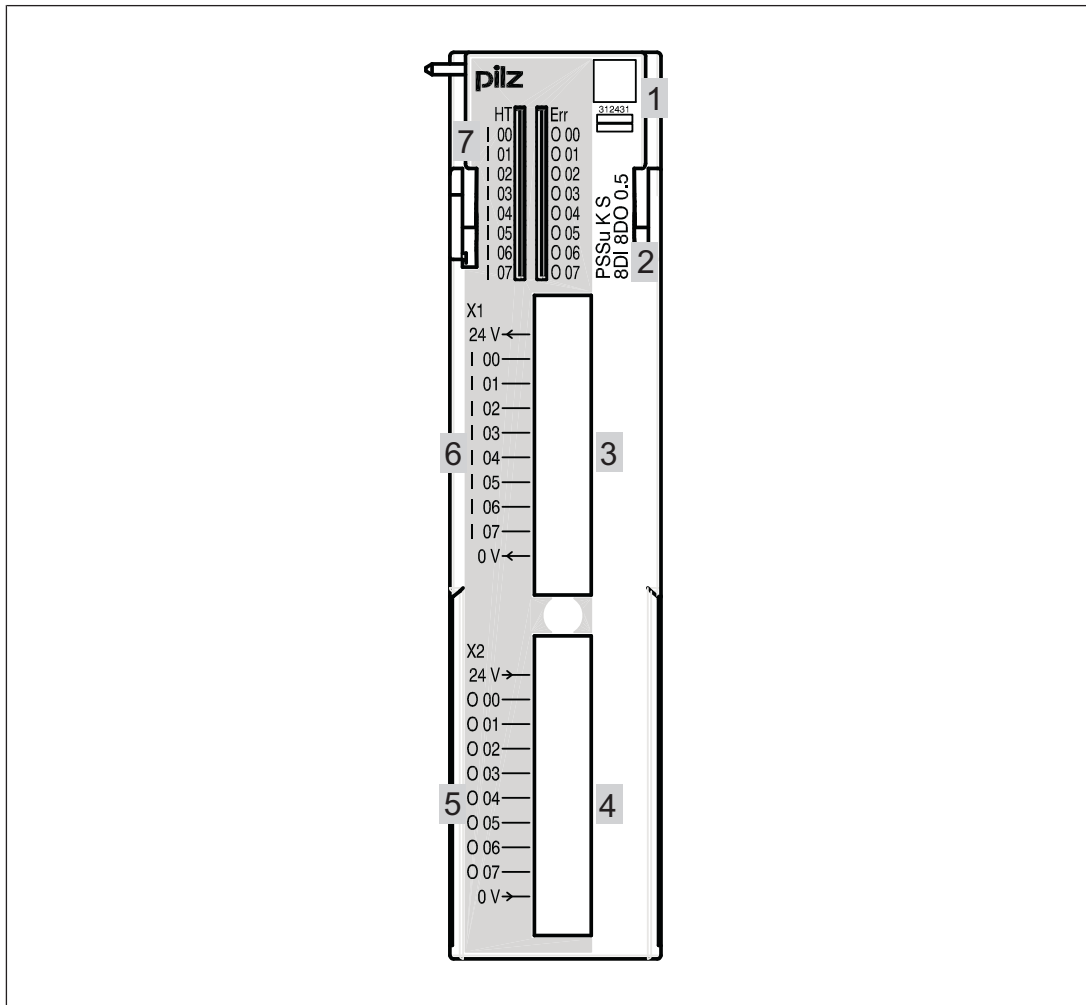
The product has the following features:

- ▶ 8 Digital inputs
- ▶ 8 Digital outputs
 - Semiconductor technology
 - Single-pole
 - Positive-switching
 - Current load capacity per output: 0,5 A
 - Short circuit-proof
 - Overload-proof
- ▶ LEDs for:
 - Switch status of each input/output
 - Module error
- ▶ 2 x 10-pin connector strip
- ▶ For standard applications in system environment A and B

Accessories:

- ▶ Connector with spring-loaded terminals (necessary for operation)
- ▶ Labelling bracket
- ▶ Labelling strips (sheets)

2.3 Front view



Key:

- ▶ 1: Labelling strip with:
 - 2D code
 - Order Number
 - Serial Number
 - Hardware version number
- ▶ 2: Name of compact module
- ▶ 3: Connector strip X1 for connectors with spring-loaded terminals
- ▶ 4: Connector strip X2 for connectors with spring-loaded terminals
- ▶ 5: Labelling strip for connector strip X2
- ▶ 6: Labelling strip for connector strip X1
- ▶ 7: LEDs for status display and module diagnostics

3 Safety

3.1 Intended use

Use in a PSSu system

The module may be used in a PSSu system in system environment A and B.

The head module establishes in what system environment a PSSu system can be used.

► System environment A

A PSSu system in system environment A is a decentralised system PSSu I/O with a field-bus, but without SafetyNET p interface. The automation system PSS 4000 does **not** belong to the system environment A.

► System environment B

A PSSu system in system environment B is a PSSu system in the automation system PSS 4000. The PSSu system can belong to one of the following performance classes:

- Decentralised system PSSu I/O (with SafetyNET p)
- Control system PSSu PLC
- Control system PSSu multi

Standard applications

The module may be used for standard applications.

Standard inputs

The module has standard inputs.

It provides type 1 standard inputs in accordance with IEC 61131-2.

Standard outputs

The module has standard outputs.

The module provides type 1 outputs in accordance with IEC 61131-2. It may be used to switch:

- Resistive loads
- Inductive loads
- Capacitive loads

Failsafe applications



WARNING!

The module may **not** be used in combination with PSSu E F BSW(-T) modules in safety-related applications.

Particular application areas

- Lift applications

The module PSSu K S 8DI 8DO 0.5 can be used in conjunction with PESSRAL modules (programmable electronic system in safety-related applications for lifts) in accordance with the Lifts Directive 2014/33/EU. The modules meet the requirements in accordance with EN 81-20, EN 81-22, EN 81-50 for passenger and goods lifts, as well as the requirements in accordance with EN 115-1 for escalators and moving walks.

The module/the safety controller should be installed in a protected environment. Example: Protected inside space or control cabinet with protection class and corresponding air conditioning specified in [Technical details](#) [ 31].

EMC-compliant installation

Intended use includes making the electrical installation EMC-compliant. Please refer to the guidelines stated in the "PSSuniversal Installation Manual". The module is intended for use in an industrial environment. Interference may occur if used within a domestic environment.

Improper use

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 operating manual,
- ▶ Any use of the module that is not in accordance with the technical details.

Software tools

The module is supported by

- ▶ PSSuniversal Configurator and PSSuniversal Assistant from version 1.8.1
- ▶ PAS4000 from Version 1.2.1



INFORMATION

We recommend that you always use the latest version of the software tool (download from www.pilz.com).

Connector

The PSSu K S 8DI 8DO 0.5 module may be used with the following connectors with spring-loaded terminals:

- ▶ PSSu A Con 1/10 C
- ▶ PSSu A Con 3/30 C

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. 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.

3.2.2 Warranty and liability

All claims to warranty and liability will be rendered invalid if

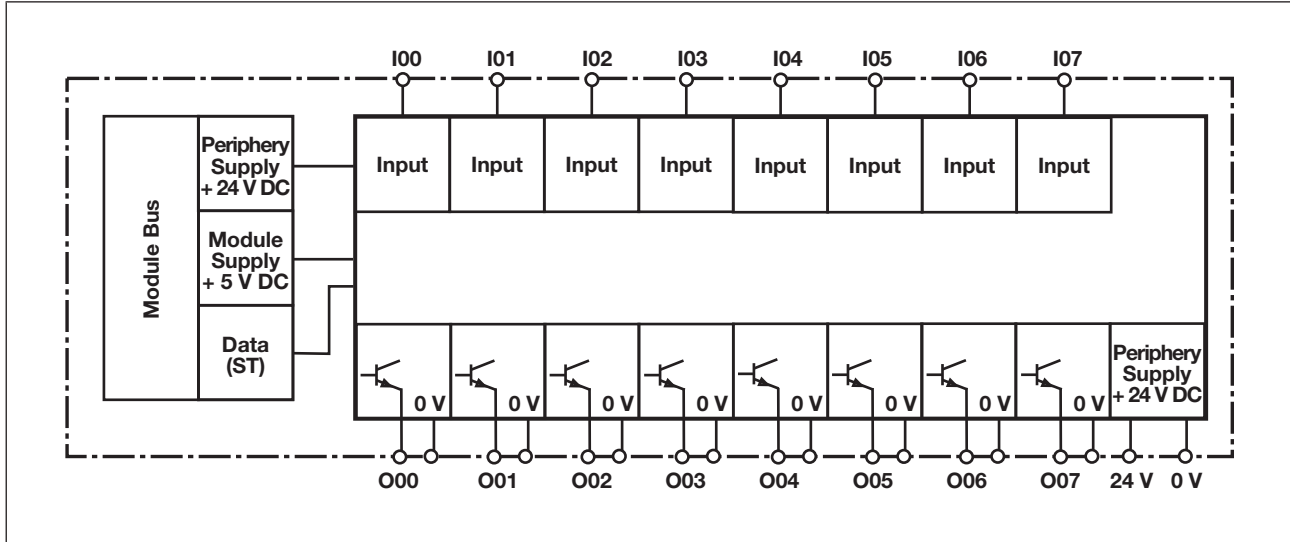
- ▶ The product was used contrary to the purpose for which it is intended,
- ▶ Damage can be attributed to not having followed the guidelines in the manual,
- ▶ Operating personnel are not suitably qualified,
- ▶ Any type of modification has been made (e.g. exchanging components on the PCB boards, soldering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

Module supply

- ▶ The module supply provides the module with voltage.

Periphery supply

- ▶ The module routes the periphery supply from the module bus to the module's connector strips.
- ▶ The periphery supply is used to supply the sensors.
- ▶ 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 Output function description

Module supply

- ▶ The module supply provides the module with voltage.

Signals at the output

- ▶ "0" signal (0 V) at the output:
 - Output is high impedance
 - No current to the load

- ▶ "1" signal (+24 V) at the output:
 - Output is low impedance
 - Current is supplied to the load

Periphery supply

- ▶ The Periphery Supply is not provided via the module bus, but it has to be fed via the connectors.
- ▶ The periphery supply is used to supply the outputs.

Outputs

- ▶ The head module sets the output status via the module bus.

4.2.3 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 provides the following diagnostic data:

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

4.2.4 Reaction times

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

4.3 Configuration

It is not necessary to configure ST inputs/outputs 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 Addresses in the process image

Each module occupies 8 consecutive bit addresses in the process image.

Configuration	SafetyBUS p	Standard bus system	
	FS-P11	ST-P11	ST-PIO
None	- - -	8 Bit	8 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
I00 ... I07	ST_I_DI	Data: BOOL	Input data I00 ... I07
O00 ... O07	ST_O_DO	Data: BOOL	Output data O00 ... O07

5 Installation

5.1 General installation guidelines

Please refer also to the PSSuniversal Installation Manual.



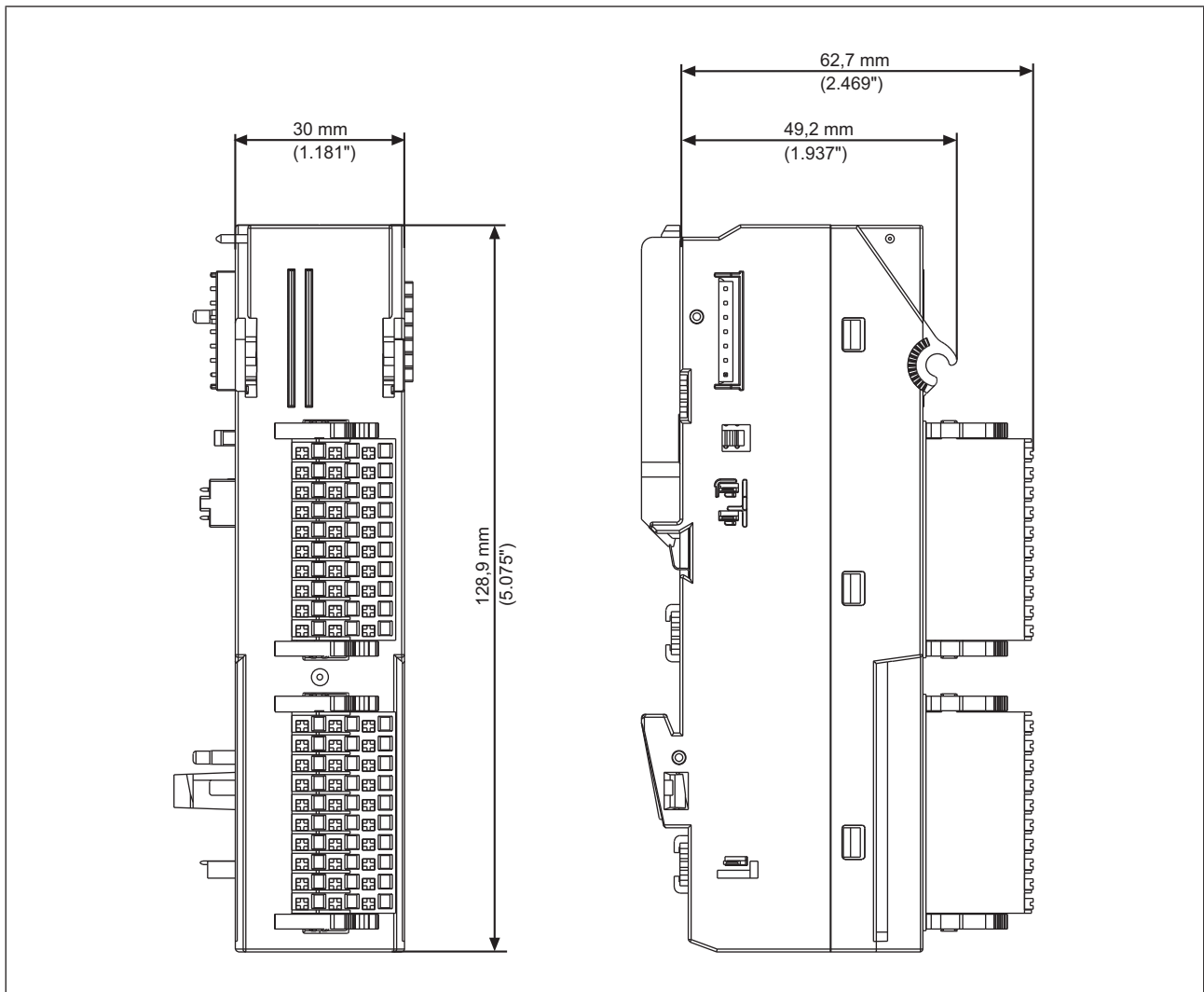
NOTICE

Damage due to electrostatic discharge!

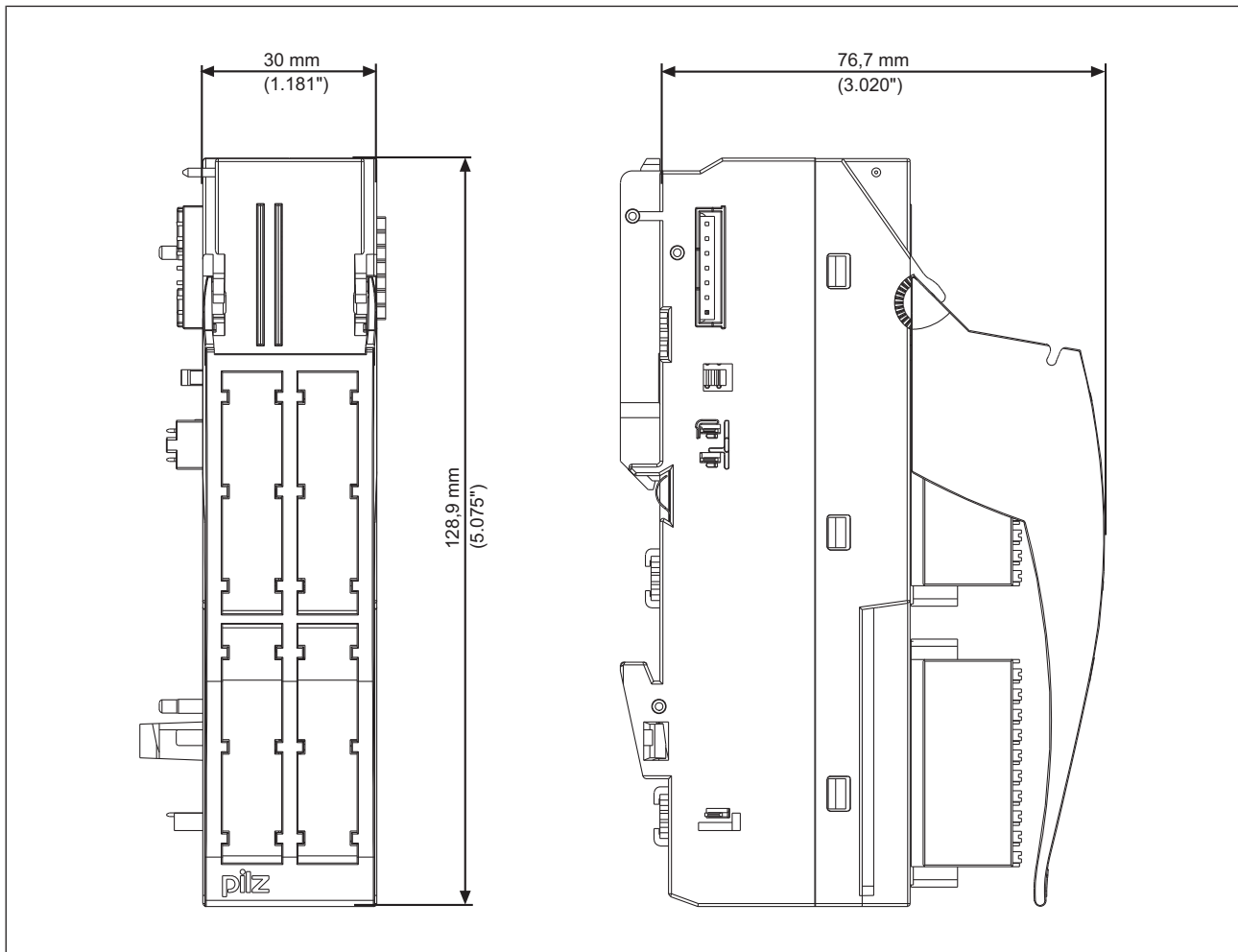
Electrostatic discharge can damage components. Ensure against discharge before touching the product, e.g. by touching an earthed, conductive surface or by wearing an earthed armband.

5.1.1 Dimensions

Module with connector:



Module with connector and labelling bracket:



5.2 Install compact 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.
- ▶ A base module with screw terminals may not be installed to the left of the compact module.

Please note:

- ▶ All contacts should be protected from contamination.
- ▶ The mechanics of the compact modules are designed for 50 plug in/out cycles.

Procedure:

- ▶ Slot the groove on the compact module on to the mounting rail from below [1].
- ▶ Push the compact module back as far as it will go [2].
- ▶ Make sure that the locking mechanism [3] is pushed downwards, connecting the module firmly to the mounting rail.
- ▶ On the mounting rail, slide the compact module to the left.



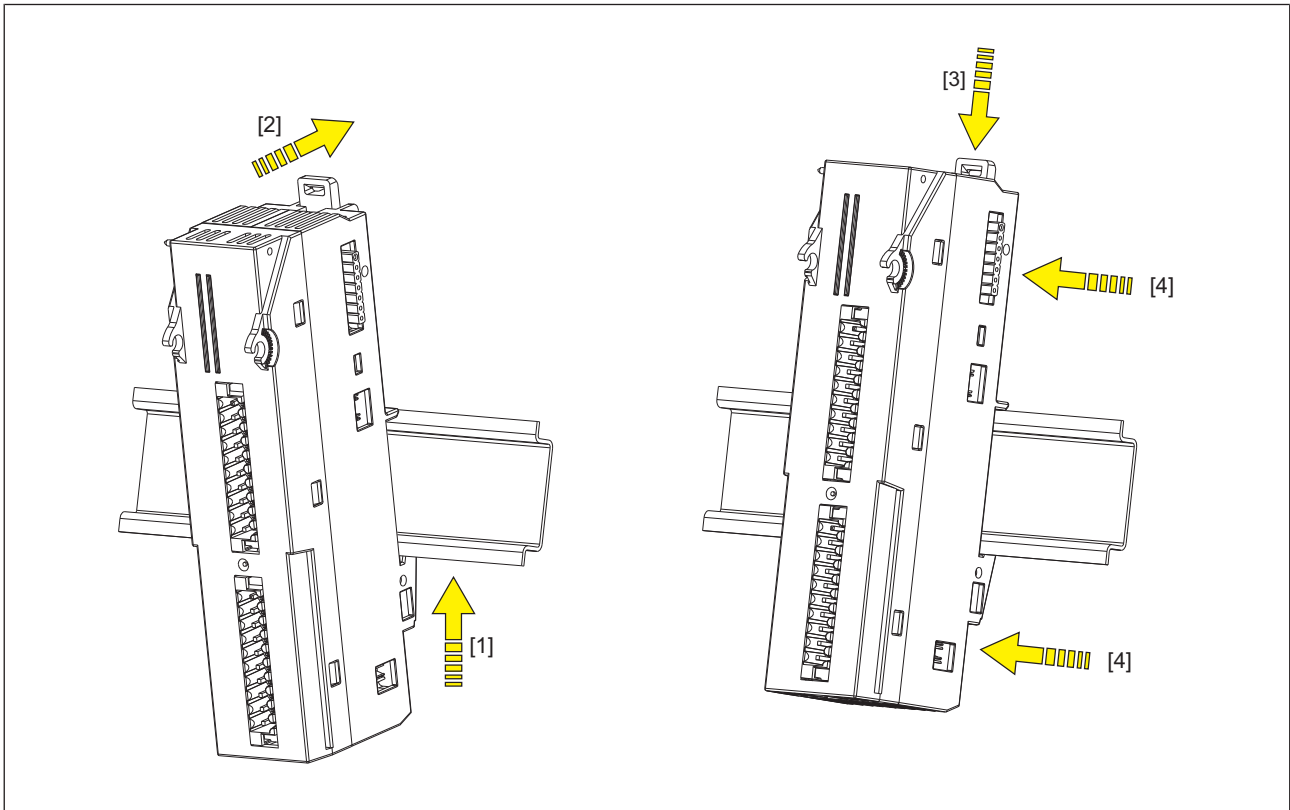
NOTICE

Potential contact damage due to twisting!

The contacts for the Module Supply and Periphery Supply can be bent by twisting the compact modules on the mounting rail.

- On the mounting rail, carefully slide the compact module to the left, in parallel to the adjoining module, until you hear the lateral mounting hooks on the adjacent module lock into position [4].

Schematic representation:



5.3 Install/uninstall connector

We recommend that the connectors with spring-loaded terminals are wired before they are plugged in.

Please note:

- ▶ All contacts should be protected from contamination.
- ▶ The mechanics of the connector are designed for 25 plug in/out cycles.

Installation procedure:

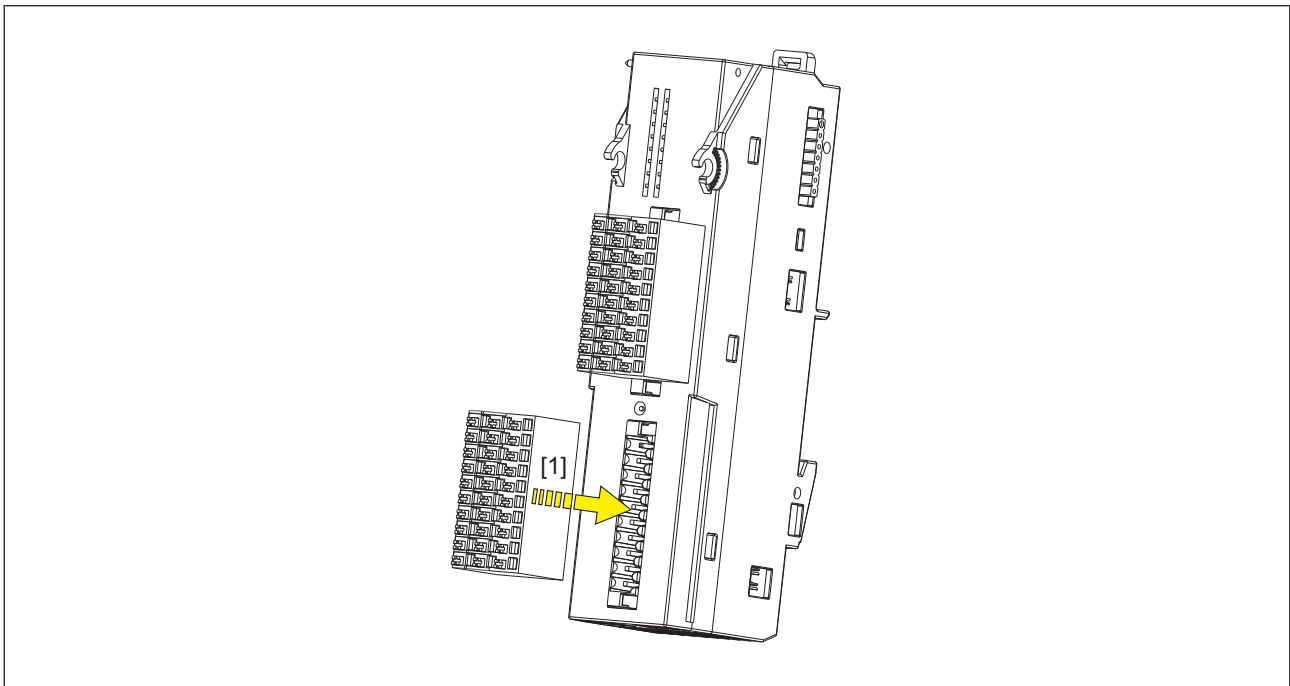
- ▶ Plug the connector into the required connector strip until you hear it lock into position [1].



INFORMATION

The two locking levers automatically hook into place when plugged in. As a result the connector is firmly connected to the module.

Schematic representation:



Uninstallation procedure:

- ▶ Push both locking levers to the left, as far as they will go [1].



INFORMATION

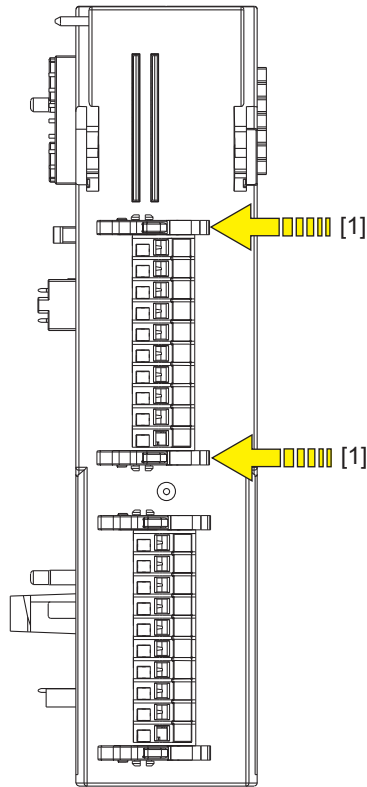
This will automatically lift the connector, which can then be removed from the module.



NOTICE

As you remove the connector, grasp the connector housing and not the cable harness.

Schematic representation:

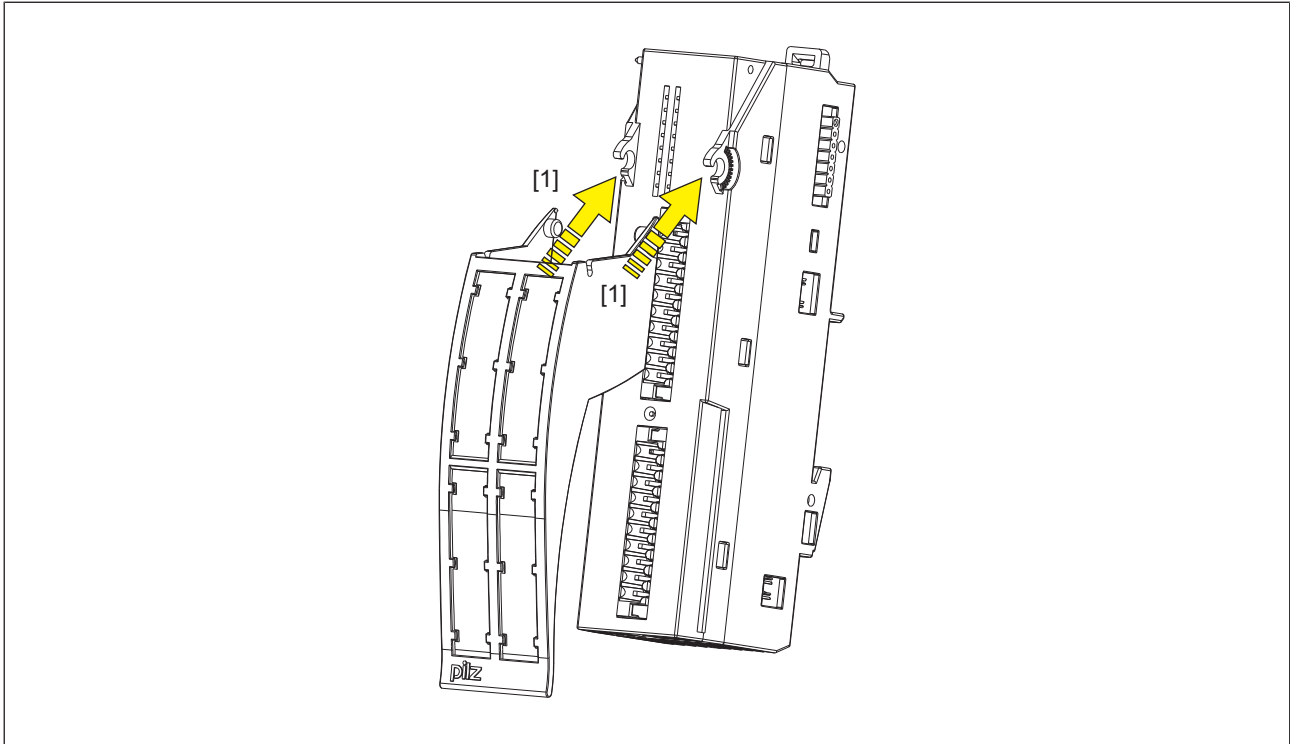


5.4 Install labelling bracket

Installation procedure:

- ▶ We recommend that the labelling strips are attached to the labelling bracket prior to installation.
- ▶ Slot the two pins on the labelling bracket into the receiving lugs on the module [1].
- ▶ Check that the labelling bracket is firmly seated.

Schematic representation:



6 Wiring

6.1 General wiring guidelines

Please note:

- ▶ Signal lines do not have to be shielded.
- ▶ The outputs do not need suppression for inductive loads.
- ▶ Use copper wiring.

6.1.1 Connectors' mechanical connection

Please note:

- ▶ The conductor cross section on the spring-loaded terminals without ferrules is 0,2 - 1 mm², 22 - 18 AWG.
- ▶ If you are using multi-core or fine-core cables we recommend ferrules in accordance with DIN 46228/Part 1 or DIN 46228/Part 4, 0.2 ... 1 mm². To crimp the ferrules we recommend crimping pliers (crimp form A) conforming to EN 60947-1, such as the PZ 6/5 from Weidmüller, for example.
- ▶ Terminal points per connection: 1
- ▶ Stripping length: 8 mm

6.1.2 Connect/disconnect the cables

We recommend you use a screw driver with a 0.4 x 2.5 mm (DIN 5264) blade!

Strip the cable:

- ▶ Strip the cable [1] and apply a ferrule if necessary (DIN 46228/Part 1 or DIN 46228/Part 4).

Connect cable:

- ▶ Using the screwdriver, press the actuator button on the spring-loaded terminal down as far as it will go [2], keep it held down and insert the stripped cable into the plug connection as far as it will go [2].
- ▶ Check that the cable is firmly seated [3].

Disconnect cable:

- ▶ Using the screwdriver, press the actuator button down as far as it will go [4], keep it held down and pull the cable out of the plug connection [4].

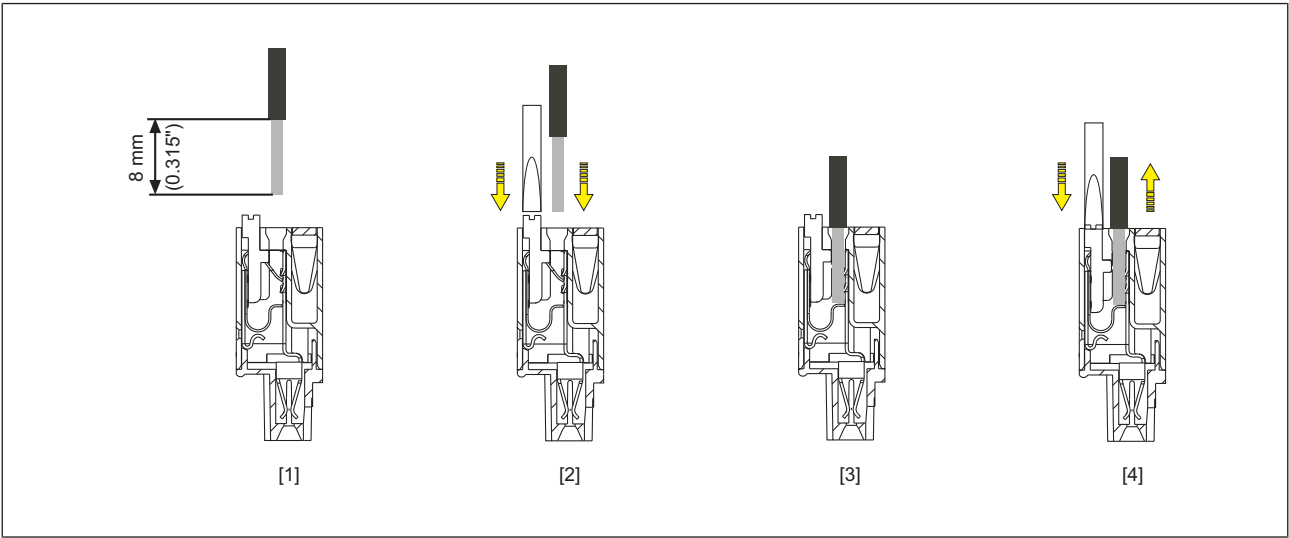
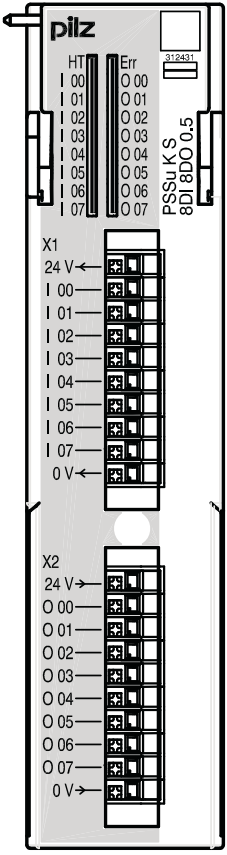
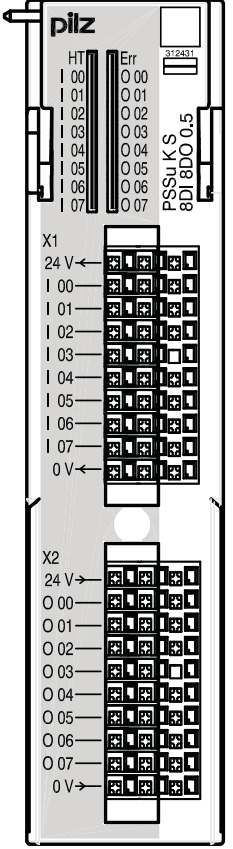


Fig.: Connect and disconnect the cables

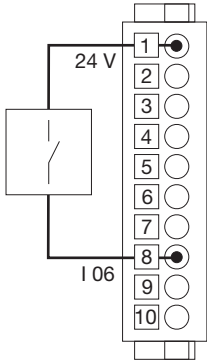
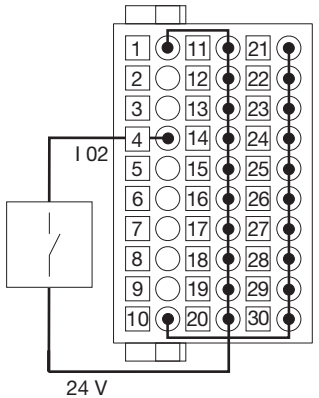
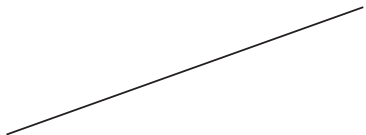
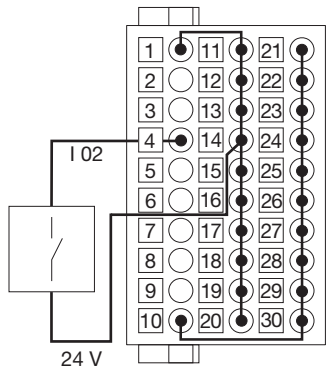
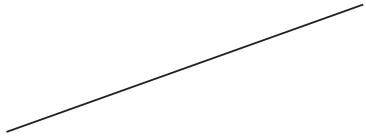
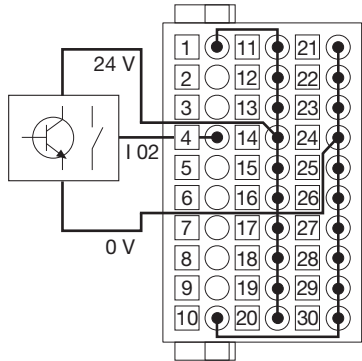
6.2 Terminal configuration

Terminal configuration				
Connector with spring-loaded terminals (1-row/10-pin): PSSu A Con 1/10 C	1. connection level			
	X1: 24 V: +24 V (periphery supply) I 00: Input 0 I 01: Input 1 I 02: Input 2 I 03: Input 3 I 04: Input 4 I 05: Input 5 I 06: Input 6 I 07: Input 7 0 V: 0 V (periphery supply) X2: 24 V: +24 V (external periphery supply) O 00: Output 0 O 01: Output 1 O 02: Output 2 O 03: Output 3 O 04: Output 4 O 05: Output 5 O 06: Output 6 O 07: Output 7 0 V: 0 V (external periphery supply)			

Terminal configuration				
Connector with spring-loaded terminals (3-row/30-pin): PSSu A Con 3/30 C	1. connection level	2. connection level	3. connection level	
	X1: 24 V: +24 V (periphery supply) I 00: Input 0 I 01: Input 1 I 02: Input 2 I 03: Input 3 I 04: Input 4 I 05: Input 5 I 06: Input 6 I 07: Input 7 0 V: 0 V (periphery supply) X2: 24 V: +24 V (external periphery supply) O 00: Output 0 O 01: Output 1 O 02: Output 2 O 03: Output 3 O 04: Output 4 O 05: Output 5 O 06: Output 6 O 07: Output 7 0 V: 0 V (external periphery supply)	X1: +24 V (periphery supply) is present at all 10 spring-loaded terminals. X2: +24 V (external periphery supply) is present at all 10 spring-loaded terminals.	X1: 0 V (periphery supply) is present at all 10 spring-loaded terminals. X2: 0 V (external periphery supply) is present at all 10 spring-loaded terminals.	

6.3 Connecting the module

6.3.1 Input connections

Input circuit	1-row/10-pin connector PSSu A Con 1/10 C	3-row/30-pin connector PSSu A Con 3/30 C
Single-wire technology		
Two-wire technology		
Three-wire technology		

6.3.2 Output connections

Input circuit	1-row/10-pin connector PSSu A Con 1/10 C	3-row/30-pin connector PSSu A Con 3/30 C
Single-wire technology		
Two-wire technology		
Three-wire technology		

7 Operation

7.1 Messages

An error will be signalled to the head module and will be entered in the head module's error stack. A module error will also be displayed via the "Err" LED (see section entitled "Display elements").

The module can detect the following errors:

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.
Temperature error: too warm	Temperature in module too high: Error stack entry	Ensure there is sufficient ventilation in the control cabinet or prevent overload.

Further information on PSSu error messages is available in the online help for the PSSuniversal Assistant system software.

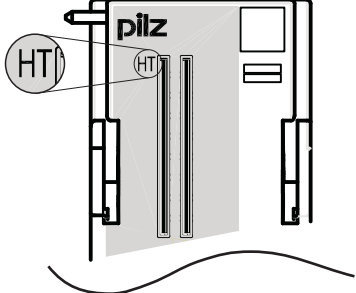
7.2 Display elements

Legend

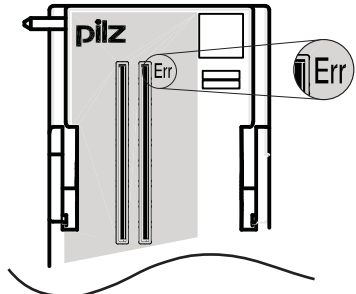
-  LED on
-  LED off

7.2.1 Display elements for module diagnostics

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

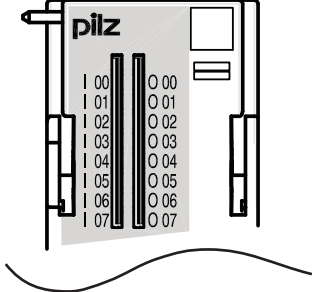
	LED			Meaning
	Designation	Colour	Status	
	HT	---		No error
		Yellow		Temperature too high

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

	LED			Meaning
	Designation	Colour	Status	
	Err	---		No error
		Red		Module is faulty

7.2.2 Display elements for input/output status

Each input/output is assigned an LED for displaying the input/output status (LEDs “I 00 ... I 07 and O 00 ... O 07”).

	LED			Meaning
	Designa- tion	Colour	Status	Signal
	I 00	---	●	0 signal
	.	Green	☀	1 signal
	.			
	.			
	I 07			
	and			
	O 00			
	.			
	.			
	O 07			

8 Technical details

General	
Certifications	BG, CE, TÜV, UKCA, cULus Listed
Application range	Standard
Module's device code	0630h
Number of ST input bits	8
Number of ST output bits	8
Application in system environment A	
from ST firmware version, other head modules	17
from ST firmware version PSSu H S PN	2
from ST firmware version PSSu WR S IDN	9
Application in system environment B	
from ST firmware version, head modules	1.2.0
Electrical data	
Supply voltage	
for	Outputs
Voltage	24 V
Kind	DC
Voltage tolerance	-30 %/+25 %
Max. continuous current that the external power supply must provide	10 A
Internal supply voltage (module supply)	
Module's power consumption	0,13 W
Periphery's supply voltage (periphery supply)	
Voltage range	16,8 - 30 V
Module's current consumption with no load	0 mA
Module's power consumption with no load	0,00 W
External unit fuse protection F1 max.	10Y
External unit fuse protection F1 max. in accordance with UL508	4 A
Permitted loads	inductive, capacitive, resistive
Inputs	
Quantity	8
Input voltage in accordance with EN 61131-2 Type 1	24 V DC
Input current at rated voltage	3 mA
Input current range	2,5 - 4 mA
Min. threshold voltage when signal changes from "1" to "0"	11 V
Max. threshold voltage when signal changes from "0" to "1"	12 V
Max. processing time of input when signal changes from "1" to "0"	4 ms
Max. processing time of input when signal changes from "0" to "1"	4 ms

Inputs

Min. processing time of input when signal changes from "1" to "0" **3 ms**

Min. processing time of input when signal changes from "0" to "1" **3 ms**

Potential isolation between input and internal module bus voltage **Yes**

Semiconductor outputs

Number of positive-switching single-pole semiconductor outputs **8**

Rated voltage **24 V DC**

Typ. output current at "1" signal and rated voltage of semiconductor output **0,5 A**

Permitted current range **0,000 - 0,620 A**

Residual current at "0" signal **0,02 mA**

Max. transient pulsed current **6 A**

Max. internal voltage drop **60 mV**

Max. processing time of semiconductor output when signal changes from "1" to "0" **0,5 ms**

Max. processing time of semiconductor output when signal changes from "0" to "1" **0,01 ms**

Potential isolation between semiconductor output and input **Yes**

Short circuit-proof **Yes**

Voltage outputs

Potential isolation between output and voltage for the internal module bus **Yes**

Environmental data

Climatic suitability **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**

Temperature range **0 - 60 °C**

Storage temperature
in accordance with the standard **EN 60068-2-1/-2**

Temperature range **-25 - 70 °C**

Climatic suitability
in accordance with the standard **EN 60068-2-30, EN 60068-2-78**

Humidity **93 % r. h. at 40 °C**

Condensation during operation **Not permitted**

Max. operating height above SL **2000 m**

EMC **EN 55011: class A, EN 61000-4-11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8, EN 61000-4-9**

Environmental data

Vibration

in accordance with the standard	EN 60068-2-6
Frequency	10 - 150 Hz
Amplitude	0,35 mm
Acceleration	1g

Shock stress

in accordance with the standard	EN 60068-2-27
Number of shocks	6
Acceleration	15g
Duration	11 ms
in accordance with the standard	EN 60068-2-27
Number of shocks	1000
Acceleration	10g
Duration	16 ms

Airgap creepage

in accordance with the standard	EN 60664-1, EN 61131-2
Overvoltage category	II
Pollution degree	2

Protection type

in accordance with the standard	EN 60529
Housing	IP20
Mounting area (e.g. control cabinet)	IP54

Mechanical data

Material

Bottom	PC
Front	PC
Labelling bracket (accessories)	PC

Mounting type

plug-in

Conductor cross section with spring-loaded terminals:

Flexible with/without crimp connector **0,2 - 1 mm², 22 - 18 AWG**

Spring-loaded terminals: Terminal points per connection

1

Stripping length with spring-loaded terminals

8 mm

Dimensions

Height	128,9 mm
Width	30 mm
Depth	56 mm
Depth incl. connector (accessories)	69,5 mm
Depth incl. labelling bracket (accessories)	83,5 mm

Weight

89 g

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

9 Order reference

9.1 Product

Product type	Features	Order no.
PSSu K S 8DI 8DO 0.5	Compact module without connector, labelling bracket and labelling strips, base type	312431

9.2 Accessories

Terminals

Product type	Features	Order no.
PSSu A Con 1/10 C	Connector with spring-loaded terminals 1-row/10-pin, scope of supply: 2 pieces	313115
PSSu A Con 3/30 C	Connector with spring-loaded terminals 3-row/30-pin, scope of supply: 2 pieces	313116

Labelling

Product type	Features	Order no.
PSSu A LC 0.1	Labelling bracket, scope of delivery: 5 pieces	312966
PSSu A LA0	Labelling strips, laser printable, scope of delivery: 1080 pieces (10 x DIN A4 sheet, 108 on each)	312958

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