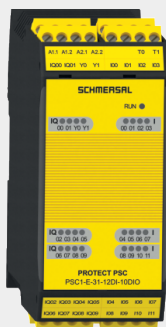


PSC1-E-31-12DI-10DIO



- Safe remote IO communication
- 2 additional signalling outputs
- Programmable Modular Safety System
- Free programmable in-/outputs, 2 A p-type
- Extension with up to 22 digital in-/outputs
- Modularly extensible with up to 272 in-/outputs
- Setting and conversion of the field bus protocols by software
- Connection for all conventional safety switchgear up to PL e to ISO 13849-1
- Safe spindle monitoring To EN 61800-5-2 (Safe Drive Monitoring) for up to 12 spindles

Data

Ordering data

Product type description	PSC1-E-31-12DI-10DIO
Article number (order number)	103012195
EAN (European Article Number)	4030661482118
eCl@ss number, Version 9.0	27-37-18-19

Certifications

Certificates	TÜV cULus EAC
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General data

Product name	PSC1
Terminal (mechanical)	Removable screw terminals
Gross weight	400 g

General data - Features

Number of digital fail-safe inputs	10
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Number of digital fail-safe in-/outputs	10
Number of signalling outputs	2

Safety appraisal

Performance Level	e
Control category to EN13849	4
Safety Integrity Level (SIL)	3
Mission Time	20 Year(s)

Mechanical data

Mounting	can be clipped into standard rail
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Mechanical data - Connection technique

Cable section, minimum	0.2 mm ²
Cable section, maximum	2.5 mm ²
Wire cross-section, minimum	24 AWG
Wire cross-section, maximum	12 AWG

Mechanical data - Dimensions

Width	45 mm
Height	100 mm
Depth	115 mm

Ambient conditions

Protection class	IP20
Ambient temperature, minimum	+0 °C
Ambient temperature, maximum	+50 °C
Storage and transport temperature, minimum	-25 °C
Storage and transport temperature, maximum	+70 °C
Relative humidity, minimum	5 %
Relative humidity, maximum	85 %
Note (Relative humidity)	non-condensing

Ambient conditions - Insulation value

	III
Degree of pollution to IEC/EN 60664-1	2

Electrical data

Operating voltage, minimum	20.4 VDC
Operating voltage, maximum	28.8 VDC

Electrical data - Fail-safe digital outputs

Rated operating current (safety outputs) 2,000 mA

Electrical data - Electromagnetic compatibility (EMC)

DIN EN 62061
DIN EN 61800-3
DIN EN 61000-6-4
DIN EN 61000-6-7
DIN EN 61326-3
DIN EN 61000-6-2

Scope of delivery

Included in delivery Backplane bus connector
Connector terminals

Documents

Datasheet (provisional PDF)

Configuration software (document with link)

(99,7 kB, 10.03.2020)

Field bus communication manual

(6,6 MB, 20.09.2019)

Installation manual

(8,6 MB, 10.05.2019, Revision 2.0)

Software manual

(7,2 MB, 20.09.2019)

TÜV certification

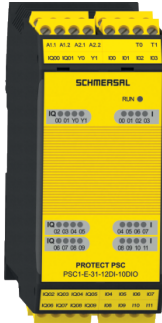
(600,5 kB, 10.05.2019, Revision 01)

EAC certification

Software (Download)

Pictures

Product picture (catalogue individual photo)



ID: kpsc1f19

| 1,5 MB | .jpg | 315.383 x 625.122 mm - 894 x 1772
Pixel - 72 dpi

| 204,9 kB | .jpg | 27.093 x 53.679 mm - 320 x 634
Pixel - 300 dpi

| 99,6 kB | .png | 74.083 x 146.756 mm - 210 x 416
Pixel - 72 dpi

System components

Accessories

103008480 PSC1-A-90-PROG-CABLE



- The programming cable is required for programming and diagnostics on the PSC1-C-10 and PSC1-C-100 control systems.

The programming cable consists of an interface converter and two cables, see the delivery.

The interface converter converts the USB signals of the PC into RS485 signals for the programming interface of the PSC1 basic modules.

103015262 PSC1-A-99-SD-MEMORY-CARD



- The industry-capable microSD card is used to store application programs and parameters. As a flexible means of data storage with quick exchangeability, it allows for exchange or copying of complete projects without the need for a PC.

The SD memory card is available for all PSC1-C-10 and PSC1-C-100 control systems with the MC, FB1 and FB2 option.

103008465 PSC1-A-80-CON-TBUS-POWER



- The bus connector connects the central expansion modules to the PSC1 basic module.
It forms the communication channel or 'backplane bus' of every PSC system.
The number of bus connectors required for the basic module and expansion modules is included in the delivery of the device.
The number of connectors required is also specified in the technical data of each device, see 'Mechanical data'

Caution:

Devices and carrier rail bus connectors may only be installed and disassembled when de-energised.

Note:

Please use only original carrier rail bus connectors!

103008473 PSC1-A-91-SAFEPLC2



- The SafePLC2 programming system is a graphically-oriented editor for creation of a monitoring program for the PSC 1-C-10 and PSC 1-C-100 safety control systems.
SafePLC2 enables graphic creation of sequence programs according to the function block method as well as the parameterisation of sensors, actuators and other technology functions used.
A licence dongle is required to save, compile and for the transfer of the program to the control system.

Note:

This software package needs to be acquired once to program the PSC 1-C-10 and PSC 1-C-100 control systems.

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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