



PSC1-C-100-FB2

- Memory card
- Expandable with safe remote IO modules
- Safe cross communication between up to 4 master controllers
- conversion of the field bus protocols by software
- integrated SD-Bus-Gateway
- Modularly expandable to up to 272 safe inputs / outputs
- Safe spindle monitoring To EN 61800-5-2 (Safe Drive Monitoring) for up to 12 spindles
- 4 safe 2 A pp-switching semiconductor outputs, switchable to 2 safe p- / n-switching semiconductor outputs
- 14 safe inputs on the base module
- 20 switchable, safe inputs / outputs
- 6 Signalling outputs
- 2 safety relay contacts

Data

Ordering data

EAN (European Article Number)	4030661455143
eCl@ss number, Version 9.0	27-24-22-07
eCl@ss number, Version 11.0	27-24-22-07
ETIM number, version 6.0	EC000236

Approval - Standards

Certificates	TÜV cULus EAC
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General data

Terminal (mechanical)	Removable screw terminals
Gross weight	400 g

General data - Features

SD Card Slot	Yes
Master-Slave-Kommunikation	Yes
Master-Master-Kommunikation	Yes
Integrated SD gateway	Yes
Number of pulse outputs (test pulse output)	6
Number of relay outputs (1-channel)	2
Number of digital fail-safe inputs	14
Number of digital fail-safe in-/outputs	20
Number of fail-safe digital outputs	4
Number of signalling outputs	6
Anzahl der Erweiterungsbaugruppen, maximal	8

Safety appraisal

Performance level, up to	e
Control category to EN13849	4
PFH-value	1.22×10^{-8} /h
Safety Integrity Level (SIL), suitable for applications in	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	112.5 mm
Height	100 mm
Depth	115 mm

Ambient conditions

Degree of protection	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
Zulässige Aufstellhöhe über NN, maximum	2,000 m

Ambient conditions - Insulation value

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

Electrical data

Operating voltage, minimum	20.4 VDC
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Operating voltage, maximum

28.8 VDC

Electrical data - Universal communication interface

Designation, Communication interface

DSUB

Electrical data - Communication protocols

Field bus

CANopen
PROFIBUS

Electrical data - Fail-safe digital outputs

Rated operating current (safety outputs)

2,000 mA

Versions

short-circuit proof, p-type (Q2 und Q3)

Electrical data - Safe relay outputs

Voltage, Utilisation category AC15

230 VAC

Current, Utilisation category AC-15

2 A

Voltage, Utilisation category DC13

24 VDC

Current, Utilisation category DC13

2 A

Electrical data - Electromagnetic compatibility (EMC)

Electromagnetic compatibility

DIN EN 62061
DIN EN 61800-3

Interfering radiation

DIN EN 61000-6-4

EMC rating

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

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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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