



SRB-E-204PE-CC

- Plug-in spring-cage terminal blocks with coding
- Input expander module
- 1 oder 2-channel control
- Monitoring of 4 sensors
- 2 Safety outputs
- 4 Signalling outputs

Data

Ordering data

EAN (European Article Number) 4030661511542

General data

Standards	EN 60204-1 EN 60947-5-1 EN ISO 13849-1 IEC 61508 IEC 62061
Climatic stress	EN 60068-2-78
Enclosure material	Glass-fibre reinforced thermoplastic, ventilated
Gross weight	250 g

General data - Features

Stop-Category	0
Electronic Fuse	Yes
Wire breakage detection	Yes

Short-circuit recognition	Yes
Removable Terminals	Yes
Automatic reset function	Yes
Earth connection detection	Yes
Integral System Diagnostics, status	Yes
Integral System Diagnostics, error code	Yes
Number of LEDs	7
Number of openers	8
Number of shutters	4
Number of fail-safe outputs, Stop 0	2
Number of signalling outputs	4

Safety appraisal

Standards	EN ISO 13849-1 IEC 62061 IEC 61508
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Safety appraisal - Fail-safe digital outputs

Performance level, up to	e
Control category to EN13849	4
PFH-value	2.66×10^{-9} /h
PFD value	2.42×10^{-5}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)

Mechanical data

Mounting	Snaps onto standard DIN rail to EN 60715
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Mechanical data - Connection technique

Terminal Connector	Spring pulley connection, plug-in rigid or flexible
Terminal designations	IEC/EN 60947-1
Cable section, minimum	0.25 mm ²
Cable section, maximum	1.5 mm ²

Mechanical data - Dimensions

Width	22.5 mm
Height	98 mm
Depth	115 mm

Ambient conditions

Degree of protection of the enclosure	IP40
Degree of protection of the mounting space	IP54
Degree of protection of clips or terminals	IP20
Ambient temperature, minimum	-25 °C
Ambient temperature, maximum	+60 °C
Storage and transport temperature, minimum	-40 °C
Storage and transport temperature, maximum	+85 °C
Resistance to vibrations to EN 60068-2-6	10 ... 55 Hz, Amplitude 0.35 mm
Resistance to shock	30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage U_{imp}	0.8 kV
Overvoltage category	III
Degree of pollution to IEC/EN 60664-1	2

Electrical data

Rated operating voltage	24 VDC -20%/+20%, residual ripple max. 10%
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Operating current	125 mA
Rated AC voltage for controls at DC minimum	19.2 VDC
Rated control voltage at DC, maximum	28.8 VDC
Electrical power consumption	3 W
Drop-out delay in case of power failure, typically	10 ms
Drop-out delay in case of emergency, typically	10 ms
Pull-in delay at automatic start, maximum, typically	150 ms
Switching frequency, maximum	1 Hz

Electrical data - Fail-safe digital outputs

Voltage drop U_d , maximum	0.5 V
Current leakage I_r	1 mA
Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	2 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	2 A

Electrical data - Digital inputs

Conduction resistance, maximum	40 Ω
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Electrical data - Digital Output

Voltage, Utilisation category DC12	24 VDC
Current, Utilisation category DC12	0.1 A

Electrical data - Electromagnetic compatibility (EMC)

EMC rating	EMC-Directive
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Status indication

Indicated operating states

Internal operating voltage U_i
Baustein-Status
Fault codes

Other data

Note (applications)

Safety sensor
hinged safety guard
Emergency-Stop button
Pull-wire emergency stop switches
Safety light curtain

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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.

Generated on: 11/9/2021, 9:07 AM