



SRB-E-204ST

- Plug-in screw terminals with coding
- STOP 0 Function
- Monitoring of 4 sensors
- Start button / Auto-start
- 2 Safety outputs
- 4 Signalling outputs

Data

Ordering data

| | |
|-------------------------------|---------------|
| Product type description | SRB-E-204ST |
| Article number (order number) | 103009973 |
| EAN (European Article Number) | 4030661478500 |
| eCl@ss number, version 12.0 | 27-37-18-19 |
| eCl@ss number, version 11.0 | 27-37-18-19 |
| eCl@ss number, version 9.0 | 27-37-18-19 |
| ETIM number, version 7.0 | EC001449 |
| ETIM number, version 6.0 | EC001449 |

Approvals - Standards

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|--------------|----------------------------|
| Certificates | TÜV cULus CCC EAC |
|--------------|----------------------------|

General data

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| Standards | EN IEC 62061 EN ISO 13849-1 EN IEC 60947-5-1 EN IEC 60947-5-3 EN IEC 60947-5-5 EN IEC 61508 EN IEC 60204-1 EN IEC 60947-1 |
| Climatic stress | EN 60068-2-78 |
| Enclosure material | Glass-fibre reinforced thermoplastic, ventilated |
| Gross weight | 150 g |

General data - Features

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| Stop-Category | 0 |
| Electronic Fuse | Yes |
| Wire breakage detection | Yes |
| Cross-circuit detection | Yes |
| Removable Terminals | Yes |
| Start input | Yes |
| Feedback circuit | Yes |
| Automatic reset function | Yes |
| Reset edge detection | Yes |
| Earth connection detection | Yes |
| Integral system diagnostics, status | Yes |
| Integral system diagnostics, error code | Yes |
| Number of LEDs | 7 |
| Number of normally closed (NC) | 8 |
| Number of normally open (NO) | 4 |
| Number of safety digital outputs, Stop 0 | 2 |
| Number of signalling outputs | 4 |

Safety classification

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|-----------|--|
| Standards | EN ISO 13849-1 EN IEC 62061 EN IEC 61508 |
|-----------|--|

Safety classification - Fail-safe digital outputs

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|--|--------------------------|
| Performance Level, up to | e |
| Category | 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

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

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| Termination | rigid or flexible Screw connection, plug-in |
| Terminal designations | IEC/EN 60947-1 |
| Cable section, minimum | 0.25 mm ² |
| Cable section, maximum | 2.5 mm ² |
| Tightening torque of Clips | 0.5 Nm |

Mechanical data - Dimensions

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|--------|---------|
| Width | 22.5 mm |
| Height | 98 mm |
| Depth | 115 mm |

Ambient conditions

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|--|---------------------------------|
| 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 | 10 ... 55 Hz, Amplitude 0.35 mm |
| Resistance to shock | 30 g / 11 ms |

Ambient conditions - Insulation values

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|---|--------|
| Rated impulse withstand voltage U_{imp} | 0.8 kV |
| Overvoltage category | III |
| Degree of pollution | 2 |

Electrical data

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| Rated operating voltage | 24 VDC -20%/+20%, residual ripple max. 10% |
| 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 |
| Pull-in delay at RESET, typically | 150 ms |
| Switching frequency, maximum | 1 Hz |
| Operating voltage | 24 VDC -20 % / 20 % |

Electrical data - Safety digital outputs

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|-------------------------------------|--------|
| Voltage drop U_d , maximum | 0.5 V |
| Leakage current I_l , maximum | 1 mA |
| Voltage, Utilisation category DC-12 | 24 VDC |
| Current, Utilisation category DC-12 | 2 A |
| Voltage, Utilisation category DC-13 | 24 VDC |
| Current, Utilisation category DC-13 | 2 A |

Electrical data - Digital inputs

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|--------------------------------|-------------|
| Conduction resistance, maximum | 40 Ω |
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Electrical data - Digital Output

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|-------------------------------------|--------|
| Voltage, Utilisation category DC-12 | 24 VDC |
| Current, Utilisation category DC-12 | 0.1 A |

Electrical data - Electromagnetic compatibility (EMC)

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| EMC rating | EMC-Directive |
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Status indication

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| Indicated operating states | Internal operating voltage U_i Baustein-Status Fault codes |
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Other data

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| Note (applications) | Safety sensor hinged safety guard Emergency-Stop button Pull-wire emergency stop switches Safety light curtain |
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Pictures

Product picture (catalogue individual photo)

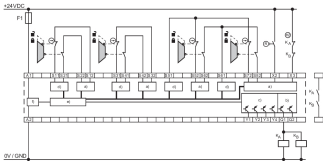


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| 1.0 MB | .jpg | 281.869 x 655.814 mm - 799 x 1859 px - 72 dpi

| 125.4 kB | .png | 74.083 x 172.156 mm - 210 x 488 px - 72 dpi

Wiring example



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| 1.3 MB | .ai | 297 x 210.002 mm - 841 x 595 px - 72 dpi

| 107.9 kB | .jpg | 352.778 x 172.861 mm - 1000 x 490 px - 72 dpi

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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.

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