



SRB-E-322ST

- STOP 0 / 1 Function
- 1 oder 2-channel control
- 3 safety contacts STOP 0
- 2 Safety outputs STOP 1
- Drop-out delay 0 ... 30

Data

Ordering data

Product type description	SRB-E-322ST
Article number (order number)	103008184
EAN (European Article Number)	4030661478517
eCl@ss number, Version 9.0	27-37-18-19
eCl@ss number, Version 11.0	27-37-18-19
ETIM number, version 6.0	EC001449

Approval - Standards

Certificates	TÜV cULus CCC EAC CNCA
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General data

Standards	IEC 61508 IEC/EN 60204-1 EN 60947-5-1 IEC/EN 62061 EN ISO 13849-1
Enclosure material	Glass-fibre reinforced thermoplastic, ventilated

Material of the contacts, electrical

Ag-Ni, self-cleaning, positive drive

Gross weight

180 g

General data - Features

Stop-Category	0 1
Wire breakage detection	Yes
Short-circuit recognition	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 auxiliary contacts	1
Number of LEDs	6
Number of openers	2
Number of shutters	1
Number of Safety contacts, STOP 0	3
Number of fail-safe outputs, Stop 1	2
Number of signalling outputs	1

Safety appraisal

Standards	IEC 62061 IEC 61508 EN ISO 13849-1
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Safety appraisal - Relay outputs

Performance Level, up to	e
Control category to EN13849	4

Diagnostic Coverage (DC) Level	> 94 %
PFH-value	1.25×10^{-8} /h
PFD value	5.30×10^{-5}
Safety Integrity Level (SIL), suitable for applications in	3
Mission time	20 Year(s)
Common Cause Failure (CCF), minimum	65

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

Mechanical life, minimum	10,000,000 Operations
Mounting	Snaps onto standard DIN rail to EN 60715

Mechanical data - Connection technique

Terminal Connector	Screw connection, plug-in rigid or flexible
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

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, relay output U_{imp}	4 kV
Rated impulse withstand voltage, semiconductor output 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%
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
Contact resistance, maximum	0.1 Ω
Note (Contact resistance)	in new state
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	0.3 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 - Safe relay outputs

Voltage, Utilisation category, AC15	230 VAC
Current, Utilisation category, AC15	4 A
Voltage, Utilisation category, DC13	24 VDC
Current, Utilisation category, DC13	4 A
Switching capacity, minimum	10 VDC
Switching capacity, minimum	10 mA
Switching capacity, maximum	250 VAC
Switching capacity, maximum	6 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 - Relay outputs (auxiliary contacts)

Switching capacity, maximum	24 VDC
Switching capacity, maximum	1 A

Electrical data - Electromagnetic compatibility (EMC)

EMC rating

EMC-Directive

Other data

Note (applications)

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

Pictures

Product picture (catalogue individual photo)

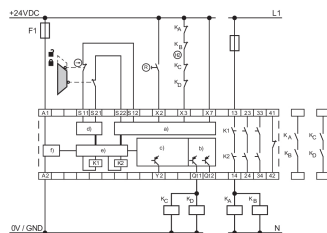


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| 125.6 kB | .png | 74.083 x 172.156 mm - 210 x 488 px - 72 dpi

Wiring example



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| 126.0 kB | .jpg | 352.778 x 248.356 mm - 1000 x 704 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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