



SRB-E-204ST

- 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 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
--------------	------------------------------------

General data

Standards	EN ISO 13849-1 EN 60947-5-1 EN 60204-1 IEC 62061 IEC 61508
Climatic stress	EN 60068-2-78

Enclosure material	Glass-fibre reinforced thermoplastic, ventilated
Material of the contacts, electrical	AgSn0, Ag-Ni, self-cleaning, positive drive
Gross weight	150 g

General data - Features

Stop-Category	0
Electronic Fuse	Yes
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 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	IEC 62061 IEC 61508 EN ISO 13849-1
-----------	--

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 x 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 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%
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

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
--------------------------------	-------------

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
------------	---------------

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
---------------------	--

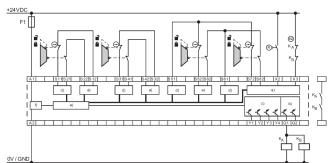
Pictures

Product picture (catalogue individual photo)



ID: ksrb2f34
 | 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



ID: ksrbel03
 | 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

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: 20/08/2021, 17:13