



SRB-E-402FWS-TS

- 2 Signalling outputs
- 2-channel time monitoring
- 2-channel safety door monitoring
- 2 Safety contacts, 2 Safety Output
- Detects standstill using 1 or 2 impulse sensors
- additional standstill signal, e.g. PLC as second input channel

Data

Ordering data

Product type description	SRB-E-402FWS-TS
Article number (order number)	103014757
EAN (European Article Number)	4030661511283

Certifications

Certificates	TÜV
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General data

Product name	SRB-E-402FWS-TS
Standards	ISO 13849-1
	EN 60947-5-1
	EN 60204-1
	EN 60947-5-5
Climatic stress	IEC 61508
	EN 60068-2-78
Enclosure material	Glass-fibre reinforced thermoplastic, ventilated
Material of the contacts, electrical	Ag-Ni, self-cleaning, positive drive
Gross weight	190 g

General data - Features

Stop-Category	0
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Electronic Fuse	Yes
Wire breakage detection	Yes
Short-circuit recognition	Yes
Start input	Yes
Feedback circuit	Yes
Automatic reset function	Yes
Reset edge detection	Yes
Earth connection detection	Yes
Integral System Diagnostics, status	Yes
Number of auxiliary contacts	1
Number of inputs for NC	4
Number of inputs for NO	2
Number of LEDs	6
Number of safety contacts	2
Number of fail-safe digital outputs	2
Number of signalling outputs	1

Safety appraisal

Standards	ISO 13849-1 IEC 62061 IEC 61508
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Mechanical data

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

Mechanical data - Connection technique

Terminal Connector	Screw connection, plug-in rigid or flexible
Terminal designations	IEC 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

Protection class of the enclosure	IP40
Protection class of the Clearance	IP54

Protection class 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
Restistance to shock	30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage, relay output	4 kV
Rated impulse withstand voltage, semiconductor output	0.8 kV
	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	150 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
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 automatic start	Adjustable
Pull-in delay at RESET, typically	150 ms
Switching frequency, maximum	0.3 Hz

Electrical data - Fail-safe digital outputs

	0.5 V
Current leakage	1 mA

Electrical data - Safe relay outputs

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 - Relay outputs (auxiliary contacts)

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

Electrical data - Electromagnetic compatibility (EMC)

EMC-Directive

Status indication

Indicated operating states	Internal operating voltage U_{i}
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Other data

Note (applications)	safe standstill monitoring Fail-safe delay timer guard door monitoring
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Documents

Operating instructions and Declaration of conformity

(1.009,2 kB, 10.05.2019, Revision C)

BG-test certificate

SISTEMA-VDMA library

(134,9 kB, 19.06.2019)

Pictures

Product picture (catalogue individual photo)



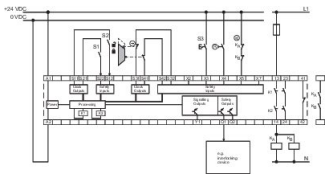
ID: ksr4f22

| 98,2 kB | .png | 74.083 x 162.983 mm - 210 x 462
Pixel - 72 dpi

| 1,0 MB | .jpg | 302.683 x 666.75 mm - 858 x 1890
Pixel - 72 dpi

| 163,2 kB | .jpg | 27.093 x 59.605 mm - 320 x 704
Pixel - 300 dpi

Wiring example



ID: ksrbel19

| 111,4 kB | .jpg | 352.778 x 184.15 mm - 1000 x 522
Pixel - 72 dpi

K.A. Schmersal GmbH & Co. KG, Möddinghofe 3, D-42279 Wuppertal

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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