

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
General data	
Product name	SRB-E-402FWS-TS
Standards	ISO 13849-1 EN 60947-5-1 EN 60204-1 EN 60947-5-5 IEC 61508
Climatic stress	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

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
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 mm²
Cable section, maximum	2.5 mm²
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

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

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

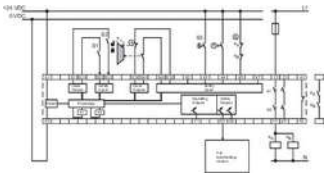
Product picture (catalogue individual photo)



ID: ksrb4f22

| 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

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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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