

SRB-E-301MC

- **1 Signalling contact**

- **Slot-in termination with coding**
- **1 or 2 channel signal evaluation**
- **3 safety contacts, stop category 0**
- **Start / feedback circuit monitoring**
- **Optionally with short-circuit recognition**
- **Suitable for applications up to Cat. 4 / PL e und up to SIL 3**

Data

Ordering data	
Product type description	SRB-E-301MC
Article number (order number)	103014374
EAN (European Article Number)	4030661508696
eCl@ss number, Version 9.0	27-37-18-19
Certifications	
Certificates	BG cULus CCC EAC
General data	
Product name	SRB-E-301MC
Standards	ISO 13849-1 IEC 61508 EN 60947-5-1 IEC 62061 IEC 60204-1
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	175 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
Earth connection detection	Yes
Integral System Diagnostics, status	Yes
Number of auxiliary contacts	1
Number of LEDs	5
Number of openers	2
Number of Safety contacts, STOP 0	3
Safety appraisal	
Standards	ISO 13849-1 IEC 62061 IEC 61508
Mechanical data	
Mounting	Snaps onto standard DIN rails to IEC 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	4 kV
	III
Degree of pollution to IEC/EN 60664-1	2
Electrical data	
Frequency range	50 Hz 60 Hz
Rated operating voltage	24 VAC -15% / +10% 24 VDC -15% / +20%, residual ripple max. 10 %
Rated AC voltage for controls, 50 Hz, minimum	20.4 VAC
Rated control voltage at AC 50 Hz, maximum	26.4 VAC
Rated AC voltage for controls, 60 Hz, minimum	20.4 VAC
Rated control voltage at AC 60 Hz, maximum	26.4 VAC
Rated AC voltage for controls at DC minimum	20.4 VDC
Rated control voltage at DC, maximum	28.8 VDC
Electrical power consumption	3.4 W
Electrical power consumption	8.5 VA
Contact resistance, maximum	0.1 Ω
Note (Contact resistance)	in new state
Drop-out delay in case of power failure, typically	80 ms
Drop-out delay in case of emergency, typically	20 ms
Pull-in delay at automatic start, maximum, typically	100 ms
Pull-in delay at RESET, typically	20 ms
Switching frequency, maximum	0.3 Hz
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	Position relay K2 Position relay K1 Internal operating voltage U_i UB: Supply voltage on
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

Documents

Operating instructions and Declaration of conformity
(755,8 kB, 18.12.2019)
BG-test certificate
(2,3 MB, 10.05.2019)
UL Certificate
(385,1 kB, 01.08.2019)
CCC certification
(2,4 MB, 19.08.2019)

EAC certification

Brochure

(1,3 MB, 30.07.2019)

SISTEMA-VDMA library

(134,9 kB, 19.06.2019)

Pictures

Product picture (catalogue individual photo)



ID: ksrb3f37

| 1,1 MB | .jpg | 301.625 x 666.75 mm - 855 x 1890 Pixel - 72 dpi
| 158,4 kB | .jpg | 27.093 x 59.859 mm - 320 x 707 Pixel - 300 dpi
| 95,4 kB | .png | 74.083 x 163.689 mm - 210 x 464 Pixel - 72 dpi