



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
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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 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
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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
Resistance 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: ksr3f37

| 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

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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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