



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

	SRB-E-301MC
	103014374
EAN (European Article Number)	4030661508696
eCl@ss number, Version 9.0	27-37-18-19

Approval - Standards

cULus
CCC
EAC

General data

	SRB-E-301MC
	ISO 13849-1
	IEC 61508
	EN 60947-5-1
	IEC 62061
	IEC 60204-1
	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

ISO 13849-1
IEC 62061
IEC 61508

Safety appraisal - Relay outputs

Performance Level, up to	e
Control category to EN13849	4
Diagnostic Coverage (DC) Level	> 99 %
PFH-value	6.00×10^{-9} /h
PFD value	4.00×10^{-5}
Safety Integrity Level (SIL), applicable for	3
Mission time	20 Year(s)
Common Cause Failure (CCF), minimum	65

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 0.25 mm ² 2.5 mm ²

Tightening torque of Clips	0.5 Nm
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Mechanical data - Dimensions

Width	22.5 mm
Height	98 mm
Depth	115 mm

Ambient conditions

	IP40
	IP54
	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 30 g / 11 ms

Ambient conditions - Insulation value

Rated impulse withstand voltage	4 kV
	III
	2

Electrical data

Frequency range	60 Hz
	24 VAC -15% / +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

Voltage, Utilisation category AC15	230 VAC
Current, Utilisation category AC-15	4 A
Voltage, Utilisation category DC13	24 VDC
Current, Utilisation category DC13	4 A
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 rating	EMC-Directive
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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

Pictures

Photo/Product/Catalogue



ID: ksrb3f37

| 1,1 MB | .jpg | 301.625 x 666.75 mm - 855 x 1890

Pixel - 72 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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