

SERIES SRB 301 LC/B



Description

The Model SRB 301 LC/B is a lower cost “general-purpose” unit designed for use with safety devices having Normally-Closed (N.C.) or PNP-type switching outputs. It is equipped for connection of one input device in single- or dual-channel configuration. In addition it features feedback monitoring of positive-guided controlled loads, automatic or manual reset and optional cross-short recognition.

TECHNICAL FEATURES

Input Voltage	24 V AC/DC
# Discrete Input Devices Monitored	1 (Single or Dual channel)
Monitored Contact Configuration	N.C. (Dry Contacts) or PNP-switching
Number & Type Safety Outputs	3 N.O. (Dry Contacts)
Number & Type Auxilliary (Non-Safety or Signalling Output)	1 N.C. (Dry Contacts)
Typical Input Devices Monitored	<ul style="list-style-type: none"> • E-stops (N.C.) • Interlock switches (N.C.) • Coded Magnets • Devices with PNP semi-conductor outputs
Type of Reset (Selectable)	<ul style="list-style-type: none"> • Manual (24 V Leading Edge) • Automatic
Feedback Monitoring	Yes
LED Displays	Green LEDs for: <ul style="list-style-type: none"> • K1 (safety relay 1) • K2 (safety relay 2) • U_i (voltage beyond internal fuse) • U_B (voltage at input terminals)
Conformity to Standards	UL, CSA, BG (CE-compliant)
Stop Category	0
Safety Classification	Up to PL _e , per EN ISO 13849-1 Up to Category 4, per EN 954-1

AVAILABLE MODELS

Model Number	Operating Voltage
SRB 301 LC/B	24V AC/DC

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MECHANICAL SPECIFICATIONS

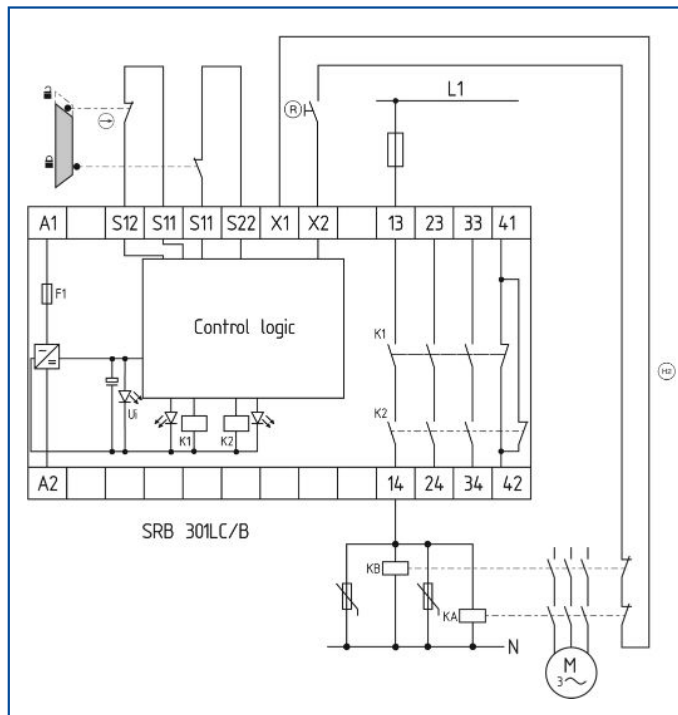
Dimensions (W x H x D)	22.5mm x 100mm x 121mm (0.9" x 3.9" x 4.75")
Ambient Operating Temperature Range	-25°C to +45°C (-13°F to +113°F)
Mechanical Life Expectancy	>10 ⁷ switching cycles
Weight	230 gm (0.5 lbs.)
Mounting	DIN rail (35mm)

ELECTRICAL SPECIFICATIONS

Operating Voltage	24 VDC -15% / +20%, residual ripple max. 10% 24 VAC -15% / +10%, 50/60 Hz
Power Consumption	1.7 W (max.), 1.9 VA
Fuse (Input Power)	Internal glass fuse F1: T 0.25 A
Fuse (Safety Outputs)	6 A Slow-blow (Recommended)
Switching Capacity (Safety Outputs)	230 VAC, 6 A Resistive (inductive with suitable suppressor circuit)
Switching Capacity (Auxilliary Contacts)	24 VDC, 2 A
Application Category	AC 15 / DC 13, EN 60 947-5-1
Pick-up Delay	≤ 30 ms
Drop-out Delay	≤ 50 ms
Contact Type & Materials	AgSnO, self cleaning, positive-guided
Contact Resistance	100 mOhm (max. in new state)
Air Cleaner & Creepage Distance	DIN VDE 0110-1 (04.97), 4 kV/2
Cable Connections	<ul style="list-style-type: none"> Screw terminals for 13 to 20 AWG Stranded or multi-core with wire end ferrule
Terminal Labeling	DIN EN 50 005 / DIN 50 013

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TYPICAL WIRING DIAGRAM



Terminal Connections

