

SERIES SRB 220XV2

General Purpose Safety Controller (for dry contact monitoring)



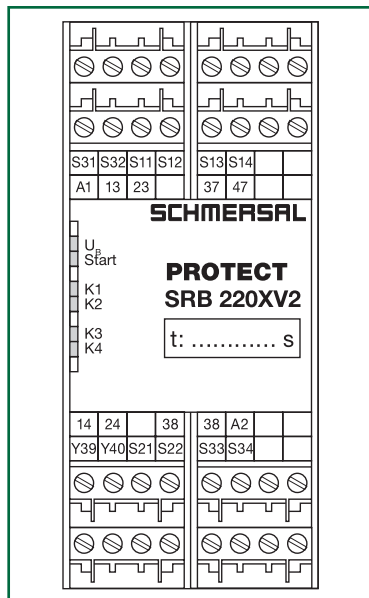
Description

The Model SRB 220XV2 is a “general purpose” unit designed for use with safety devices having Normally-Closed (N.C.) dry contacts. It is equipped for connection of one monitored input device in single- or dual-channel configuration. In addition it features user-selectable monitored-manual or automatic reset, stop category 0 & 1 safety outputs, and feedback monitoring of positive-guided controlled loads.

TECHNICAL FEATURES

Input Voltage	24V AC/DC
# Discrete Input Devices Monitored	1 (Single or Dual-Channel)
Compatible Input Device Contact Configuration	N.C. (Dry Contacts)
Number & Type Safety Outputs	4 N.O. (2 delayed: 1-30 sec.) (dry contacts)
Typical Input Devices Monitored	<ul style="list-style-type: none"> E-stops (N.C.) Interlock switches (N.C.)
Type of Reset (Selectable)	<ul style="list-style-type: none"> Monitored-manual (trailing edge) Automatic
Feedback Monitoring	Yes
LED Displays	Green LEDs for: <ul style="list-style-type: none"> K1-K4 (safety relays 1-4) Start (enable outputs) UB (voltage at input terminals)
Conformity to Standards	UL, CSA, BG (CE-compliant)
Stop Category	0 (2 safety outputs) 1 (2 safety outputs)
Safety Control Category Rating Per EN 954-1	4 (stop category 0) 3 (stop category 1)
Selected Features	<ul style="list-style-type: none"> Cross-short recognition Stop category 0 & 1 Selectable monitored-manual or automatic reset Hybrid fuse Feed back monitoring

Front View



AVAILABLE MODELS

Model Number	Operating Voltage
SRB 220XV2	24 V AC/DC

SERIES SRB 220XV2

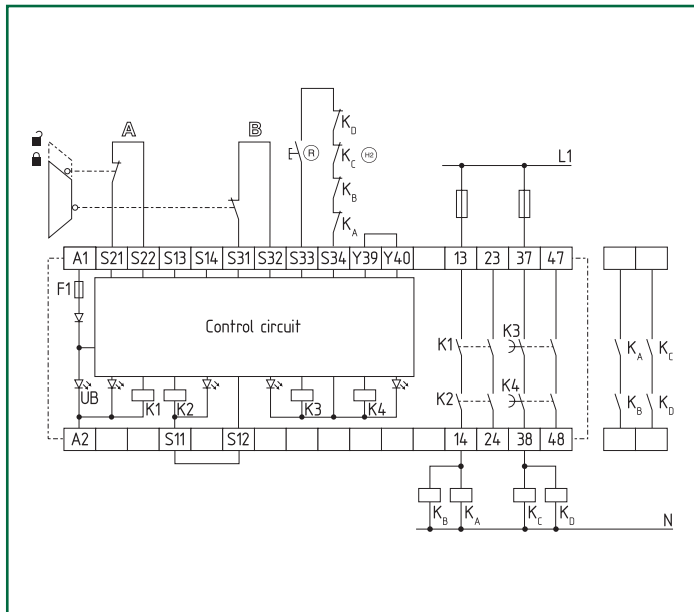
MECHANICAL SPECIFICATIONS

Dimensions (W x H x D)	45mm x 100mm x 121mm (1.8" x 3.9" x 4.75")
Ambient Operating Temperature Range	-25°C to +60°C (-13°F to +140°F)
Mechanical Life Expectancy	>10 ⁷ switching cycles
Weight	420 gm
Mounting	DIN rail

ELECTRICAL SPECIFICATIONS

Operating Voltage	24 VDC -15% / +20%, residual ripple max. 160% 24 VAC -15% / +10%, 50/60 Hz
Power Consumption	2.6 W, 5.4 VA max.
Fuse (Input Power)	• Internal electronic Fuse, tripping current > 0.9 A (reset approx. 1 second)
Fuse (Safety Outputs)	8 A Slow-blow (Recommended)
Switching Capacity (Safety Outputs Stop 0)	230 VAC, 8 A Resistive (inductive with suitable suppressor circuit)
Application Category	AC-15 / DC-13 : EN 60 947-5-1
Pick-up Delay	≤ 20 ms
Drop-out Delay	≤ 25 ms (at emergency stop) ≤ 50 ms (at power failure)
Contact Type & Material	AgSnO, self cleaning, positive-guided
Contact Resistance	100 mOhm (max. in new state)
Air Clearance & Creepage Distance	DIN VDE 0110-1, 4 kV/2
Cable Connections	• Self-lifting, screw terminals for 13 to 20 AWG • Stranded or multi-core with wire end ferrule
Terminal Labeling	DIN EN 50 005 / DIN 50 013

TYPICAL WIRING DIAGRAM



TERMINAL CONNECTIONS

