SAFETY RELAYS





ENERGY AND AUTOMATION

SAFETY RELAYS SRA SERIES



With the SRA... series of safety relays you can monitor the most advanced types of safety systems including light curtains, RFID sensors and two-hand control devices. The SRA series also includes a multifunction model that allows to manage all the main safety functions in a single device.



Order code





SRATH21

SRALC21

SRAMF21

Order code	Auxiliary supply voltage	Type of output contact	Function	
	[V]			
Multifunction				
SRAMF21	24VDC	2N0 + 1PNP	Multifunction	
Single function				
SRATH21			Two-hand control devices	
SRALC21	24VDC	2NO + 1PNP	Daviase OCCD	
SRASM20		2N0	Devices OSSD	

SRASM20

Potential uses

	Emergency stop	Safety switch	Magnetic sensors	Two-hand control devices	Safety devices with OSSD outputs (light curtains, laser scanner, RFID,)	Mechanical safety interlock
			Sec.			
SRAMF21	•	•	•	•	•	•
SRATH21				•		
SRALC21					•	
SRASM20					•	

Multifunction model settable with a frontal trimmer, which includes the main

Single function models that can be used for: safe control of light curtains, two-hand control devices, laser scanner and RFID sensors.

Safety relays with perfomance level up to Cat.4, PLe compliant to EN/BS 13849-1

Alarm diagnostics through the frontal LED

Compact design with 35mm DIN rail mounting

General characteristics

The SRAMF21 multifunction safety relay offers the possibility of having the safety functions above in one device. This is achieved by simply selecting the desired function using the dedicated frontal trimmer. The SRAMF21 multifunction safety relay monitors and controls safety circuits in applications with:

- Emergency stops
- Security accesses
- Magnetic safety switches
- Safety limit switches
- Electromechanical interlocks
- Input from OSSD (for ESPE and RFID), automatic restart or monitored manual restart
- Command of two-hand control devices
- (type IIIA and IIIC according to EN 574)

 Control for type 2 photocells, manual or automatic restart.

The Lovato Electric SRA... safety relays are designed in order to monitor and control safety circuits in applications with:

- SRATH21: monitoring of two-hand control devices (type IIIC according to EN 574)
- SRALC21: monitoring of safety devices equipped with OSSD (light curtains, laser scanner, RFID)
- SRASM20: monitoring of devices equipped with OSSD and integrated safety functions.

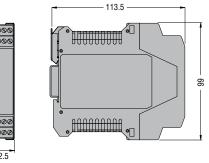
Main characteristics

- Auxiliary supply voltage: 24VDC
- 35mm DIN rail mounting (IEC / EN / BS 60715)
- 1 PNP output for system monitoring
- 1 feedback input from external contactors
- 1 test input (for light curtains)
- Alarm diagnostics through LED flashing
- Front protection degree: IP20
- Terminal protection degree: IP20.

Certifications and compliance

Certifications (pending): cULus, TUV. Compliant with standards: Cat. 4, PLe according to EN/BS 13849-1.

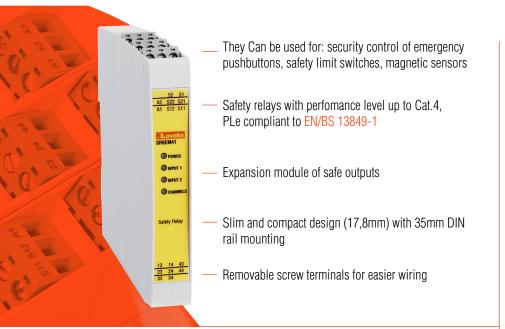
Dimensions [mm]



Lovato

SAFETY RELAYS SRB SERIES

With SRB... series of safety relays you can monitor a safety system and execute commands to stop it or check its safety functions. **The SRB series** is composed of three independent relays that manage different functions such as emergency stops, safety stops and safety limit switches.



Order code



Order code	Auxiliary supply voltage	Type of output contact	Function		
	[V]				
Single function					
SRBES20	24V AC/DC	2N0	Emorgonovieton		
SRBES31	24V AG/DC	3NO+1NC	Emergency stop		
Safe outputs expansion module					
SRBEM41	24V AC/DC	4NO+1NC	Expansion module		

Potential uses

	Emergency stop	Safety switch	Magnetic sensors	Mechanical safety interlock	Expansion module of safe outputs
	C O		Stores .		le contraction of the second sec
SRBES20	•	•	•	•	
SRBES31	•	•	•	•	
SRBEM41					•

General characteristics

LOVATO Electric safety relays are designed for applications up to Category 4 and performance level up to PLe according to EN/ISO/BS 13849-1.

The SRB ... safety relays are designed in order to monitor and control safety circuits in applications with:

- Emergency stops
- Security accesses
- Magnetic safety switches
- Safety limit switches

- Electromechanical interlocks.

SRBEM41 is an expansion module to extend the number of safe outputs.

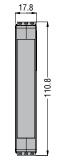
Main characteristics

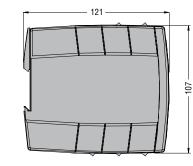
- Auxiliary supply voltage: 24VAC / DC
- 35mm DIN rail mounting (IEC / EN / BS 60715)
- Compact size: 17.8mm wide
- Double or single channel operation
- Control up to 3 NO safety outputs with electromechanical relay with forced guidance
- Start / reset operating mode (manual, automatic or monitored manual)
- Diagnostics of the safety circuit through indications of LEDs for power supply, safety input status and status of the safety outputs
- The short circuit between the two input channels is detected
- In the event of a fault, the safe outputs are deactivated (contacts opened)
- 1 NC auxiliary output (SRBES31) that can be used for remote status indication
- Removable screw terminal connection
- Front protection degree: IP40
- Terminal protection degree: IP20.

Certifications and compliance

Certifications obtained: cULus, TUV. Compliant with standards: Cat. 4, PLe according to EN/BS 13849-1.

Dimensions [mm]





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