SRAMF21

SAFETY RELAY SRA… SERIES, MULTIFUNCTION, 2NO+1PNP, WITH FRONTAL TRIMMER SELECTION, AUXILIARY SUPPLY 24VDC, UP TO CAT.4, PLE

Lovato electric
ENERGY AND AUTOMATION

Product designation		SRA
Product type designation		Multifunction
General characteristics		
General characteristics		
Functions		Safety barrier with fail safe OSSD outputs; RFID; Emergency stop button; Gate monitoring applications; Two-hand devices control; Type 2 safety photocells
Contact characteristics		
Type of contact		2NO+1PNP
Operations		
Mechanical life	cycles	>10^7
Auxiliary supply		
Nominal auxiliary voltage supply		24VDC
Operating range	V	19…29VDC
Overvoltage category		III
Insulation voltage	kV	4
Protections		Signaling output protected from overload
Input characteristics		
Number of inputs	Nr.	2
Input current	mA	Typical 4.3
Input voltage		0-30VDC
Output characteristics		
Number of safe outputs NO	Nr.	2
Number of safe outputs NC	Nr.	0
Number of feedback outputs	Nr.	1PNP
Output type		Relays with forcibly guided contacts
Output contacts ratings		AC1 250V: 6A-2000VA AC15 230V: 5A DC13 24V: 2A
UL 508 ratings		Pilot duty: B300-Q300
Mechanical life	cycles	>10^7
Electrical life AC1 at 360 commutations/h	cycles	10^5

Safety parameters			
ISO 13849-1 security category			Cat. 4
ISO 13849-1 performance level			PLe
Mechanical features			
Fixing			35mm DIN rail
Weight		g	150
Ambient conditions			
Protection degree			IP40 on front IP20 on terminals
Pollution degree			2
Temperature			
Operating temperature			
	min	°C	-25
	max	°C	+55
Storage temperature			
	min	°C	-30
	max	°C	+70
Relative humidity		%	≤95
Dimensions			
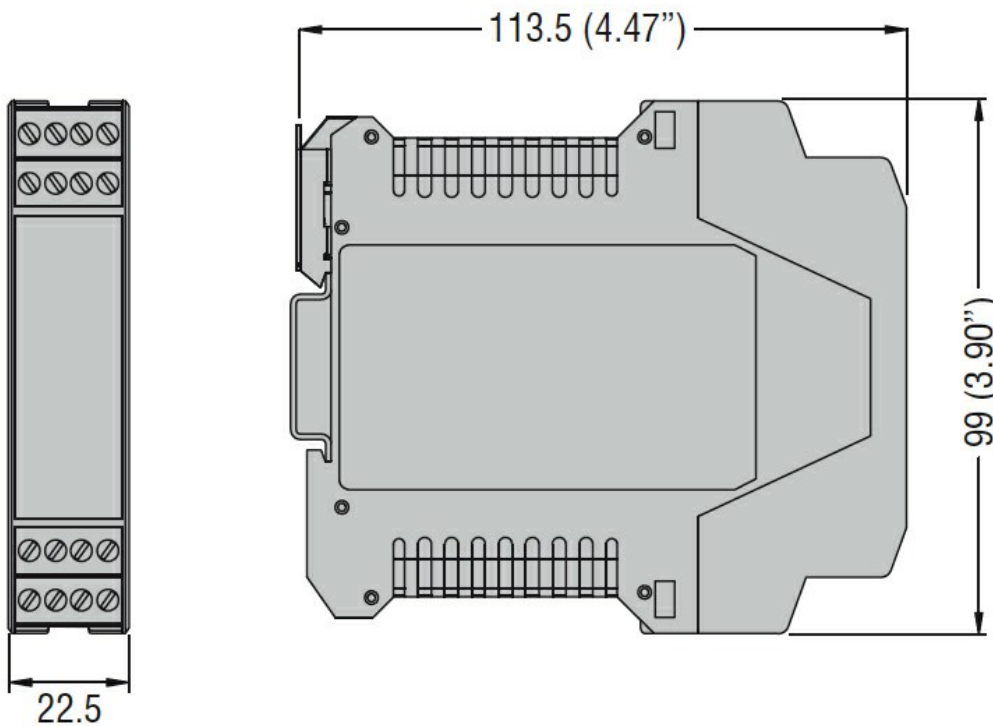
Wiring diagrams
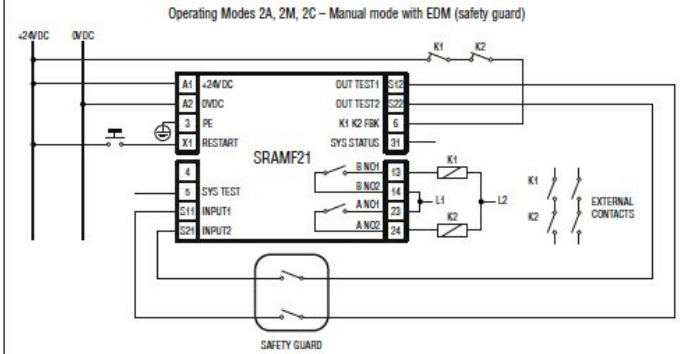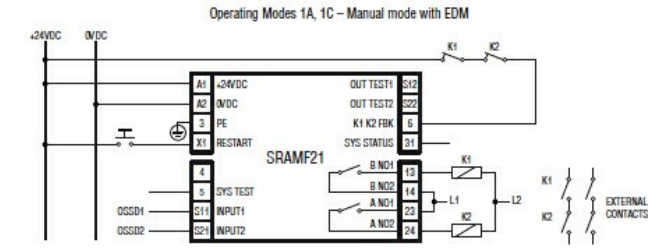
Operating Modes 1A, 1C – Manual mode with EDM

Operating Modes 2A, 2M, 2C – Manual mode with EDM (safety guard)

(Mode 2M) When pin X1 is permanently connected to 24VDC the module works in Automatic Restart mode

Operating Modes 2A, 2M, 2C – Manual mode with EDM (emergency stop actuators)

(Mode 2M) When pin X1 is permanently connected to 24VDC the module works in Automatic Restart mode

Operating Modes 3A – Automatic mode with EDM (two-hand control)

Operating Modes 3C – Automatic mode with EDM (two-hand control)

Operating Modes 4A, 4C – Manual mode with EDM (type 2 photocells)
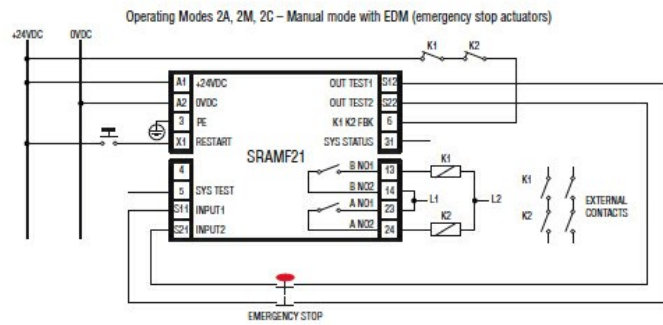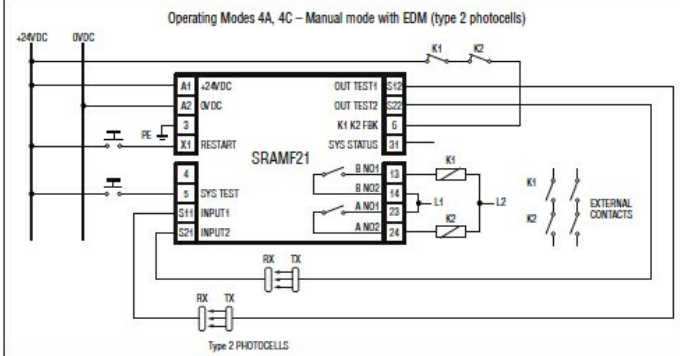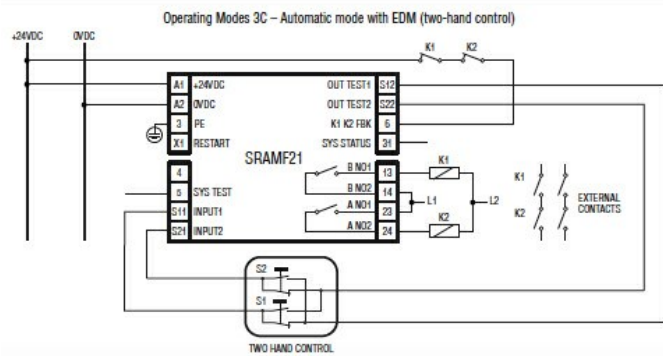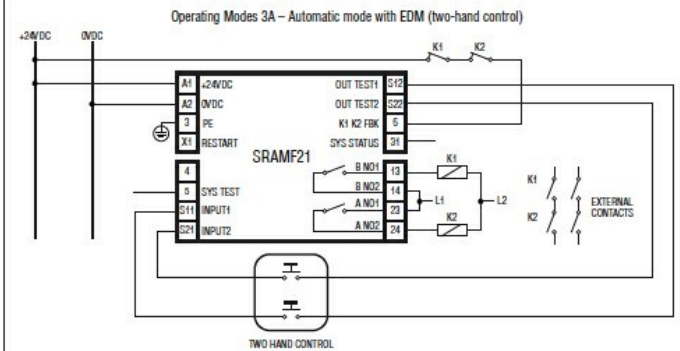
Certifications and compliance

Compliance

EN/BS 62061

EN/ISO/BS 13849-1

Certificates

cULus

TÜV

ETIM classification

ETIM 8.0

EC001449 - Device for monitoring of safety-related circuits