

SCDA129R **Two-hand Control Safety Relay** Module







Product overview

The SCDA129R is a logic unit for monitoring and accessing two-hand control devices in accordance with EN 574 Safety Class IIIC.

Inputs: The two input switches must start each other within 0.5s and will only be in the "on" state when both switches are held down at the same time. If one or both of the switches are in the released state, the output transitions to the Off state. The machine restarts only when both switches are released and then held down at the same time.

Output: Has two normally open safety outputs and one normally closed auxiliary output. The safety output has separate and redundant internal contacts that support safety functions, and the auxiliary output is a nonsafety output dedicated to providing external signals about the status of the safe output. The safety relay module can automatically detect whether the contact is correctly judged and closed.

Characteristics

- ◆ Complies with ISO 13849-1 Category 4
- ◆ Complies with EN 574 safety category IIIC
- ◆ Two N.O. safety outputs (contacts)
- ◆ Automatic reset
- Removable terminals

- Complies with GB/T 196 71
 - Safety Category IIIC
- ◆ Two-hand control unit
- ◆ One N.C. auxiliary output (contact)
- 22.5mm wide housing

Technical parameters

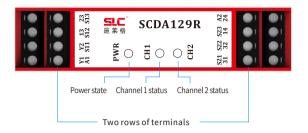
Standard	EN 574, GB/T 19671
Security classification	Meets ISO 13849-1 category 4
Power supply	
Enter the power supply	24V/DC
Power consumption	2W
Input	
Secure input	1 N.C.+ 1 N.O.
Enter Sync	< 0.5 s
Maximum input resistance	40 Ω
Reposition	Automatic reset
Power-on delay/recovery time	1s/500ms
Response time	20ms
Output	
Safe output	2 N.O. redundant normally open outputs
Auxiliary contact output	1 N.C. normally closed outputs
Shock rated withstand voltage	2500V
The minimum current is not switched for a specific voltage	10mA/10V
Output fuse	External 6A slow melt or 10A fast melt
Electrical life	1×10 ⁵ 次(1NO:3A 24VDC,Resistive load,1s on 9s off)
	1×10⁵次(1NO:6A 250VAC,Resistive load,1s on 9s off
Mechanical life	2,000,000 operations
Environmental and physical characteristics	
Enclosure rating/terminal protect	ion IP40/IP20

Environmental and physical characteristics	
Enclosure rating/terminal protection	IP40/IP20
Operating temperature	-5···+55°C
Vibration resistance	1055Hz,0.35mm
Impact resistance	10g,16ms,100 shocks
Installation	35mm DIN rail
Weight (g)	150
Maximum conductor specifications	0.2···4mm²

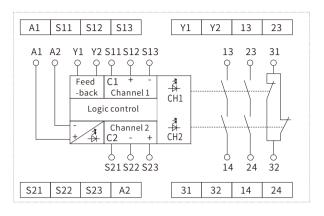
*Depending on the product configuration and manufacturing process, the actual product size and weight may vary, please refer to the actual product



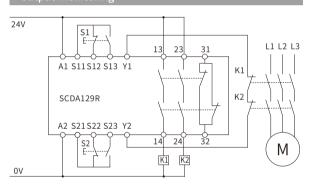
Panel description



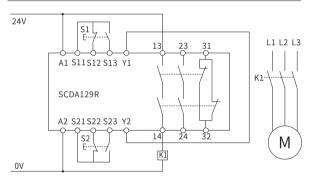
Block diagram



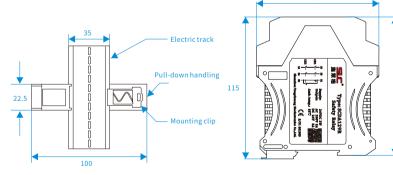
Description of wiring diagrams for typical applications



no output monitoring



Installation method



*Function description: The safety relay module should be installed in the electronic control box with a protection type of IP54 or above installed with a DIN rail (35mm) and fixed in the electronic control box



- 1. The fixed plastic card position of the SCDA series safety module is diagonally stuck to the side of the installation rail;
- 2. Put down the guide rail and press the SCDA series safety module, so that its hardware movable buckle is clasped to the other side of the guide rail.



Warning

- ◆ Constantly closed output cannot be used as safe output.
- ◆ Please confirm the wiring when the power is turned off.
- ◆ Please confirm that the change of power supply voltage does not exceed
- ◆ The power supply must have the function of output overvoltage and overcurrent protection.
- ◆ Not used in flammable and explosive environments.

