



# SCDA128R SCDA128R/N SCDA132R/P SCDA132R/N **Safety Relay** Module





#### Product overview

SCDA128R、SCDA128R/N、SCDA132R/P、SCDA132R/N have manual reset function. It is a safety relay modules in accordance with ISO 13849-1 category 4.

Input: The safety relay module has three different input wiring configurations, one normally closed, two normally closed or two outputs of the light curtain (SCDA128R connected to PNP signal, SCDA128R/N connected to NPN signal, SCDA132R/P connected to PNP signal, SCDA132R/N connected to NPN signal). When connecting with two normally closed modes, the safety relay module checks for cross-faults between the two inputs. When connected to a light curtain, the light curtain must have the function of performing cross-fault detection.

Output: SCDA128R, SCDA128R/N safety relay modules have three normally open safety outputs and one normally closed auxiliary output. The SCDA132R/P and SCDA132R/N safety relay modules have four normally open safety outputs and two normally closed auxiliary outputs.

The auxiliary output is a non-safety output designed to provide external signals about the safe output state, the safety output has redundant circuits supporting safety functions and an automatic monitoring mechanism that can remain active in the event of a component failure, and the safety relay module can automatically detect whether the contact is properly opened or closed during each duty cycle.

Weight (g)

Maximum conductor specifications

#### Technical parameters

Standard	ISO 13849-1	
Security classification	Meets ISO 13849-1 category 4	
Enter the power supply	24V/DC	
Power consumption	2W	
Secure input	1 N.C. or 2 N.C. or safety light barriers	
Enter Sync	No limit on automatic reset (CH2 before CH1)	
Maximum input resistance	110Ω	
Reposition	Monitored manual reset	
Power-on delay/recovery time	1s/100ms	
Response time	15ms	
Safe output	3-channel or 4-channel N.O. Redundant normally open output	
Auxiliary contact output	1 channel normally closed or 2 channel normally closed output	
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	
SCDA131 auxiliary output	Max. 100mA/24V	
Electrical life	1×1	L0⁵次(1NO:3A 24VDC,Resistive load,1s on 9s off
	1×10⁵次(1NO:6A 250VAC,Resistive load,1s on 9s of	
Mechanical life	2,000,000 operations	
Environmental and physica	l cha	racteristics
Enclosure rating/terminal protection		IP40/IP20
Operating temperature		-5···+55°C
Vibration resistance		10…55Hz,0.35mm
Impact resistance		10g,16ms,100 shocks
Installation		35mm DIN rail

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

0.2…4mm<sup>2</sup>

150

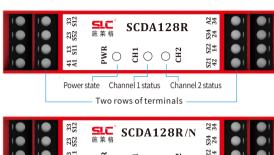


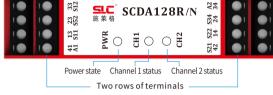
#### SCDA128R SCDA128R/N SCDA132R/P SCDA132R/N SAFETY RELAY MODULE

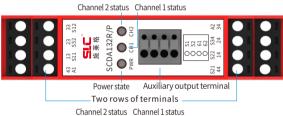
### **Product features**

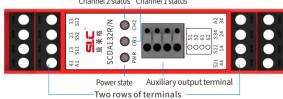
- Comply with ISO 13849-1 Category 4
- Manual reset
- ◆ Safety light curtain, scram or safety door applications
- Three or four safety outputs (contacts)
- Cross-fault monitoring
- Removable terminals

### **Panel description**

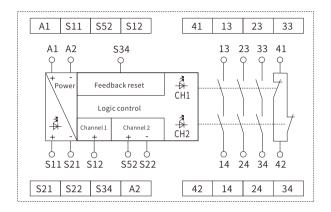




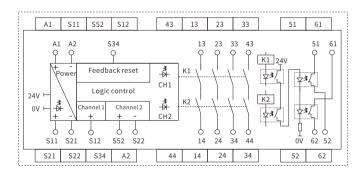




### SCDA128R block diagram

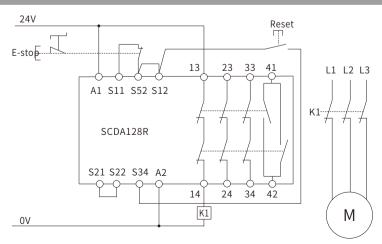


### SCDA132R block diagram



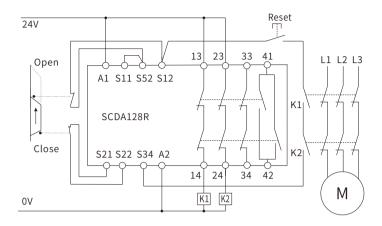
## Description of wiring diagrams for typical applications

SCDA128 is connected to a single channel emergency stop, with manual reset for monitored devices and no output

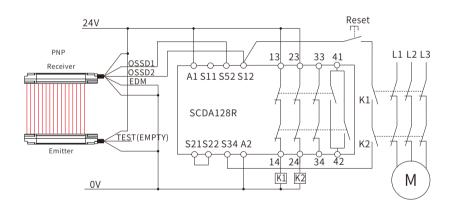


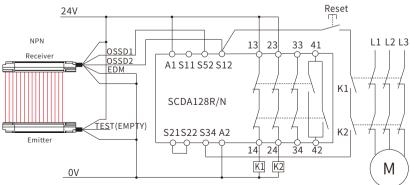


SCDA128 is connected to a dual channel safety door, with manual reset and output monitoring for monitored devices



#### SLC series light curtain, monitored manual reset, output monitoring



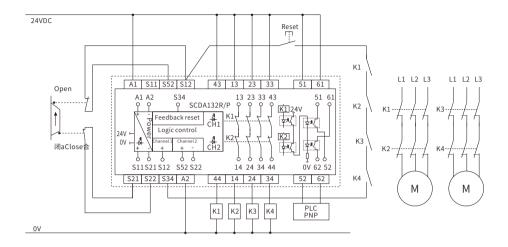


\*The application wiring diagram is in normal working state

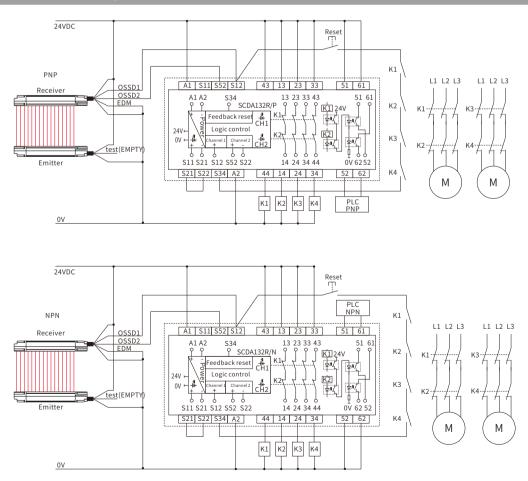


#### SCDA128R SCDA128R/N SCDA132R/P SCDA132R/N **SAFETY RELAY MODULE**

SCDA132 is connected to a dual channel safety door, which is manually reset and monitored for output monitoring

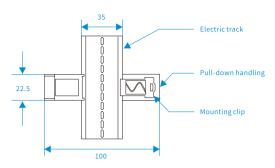


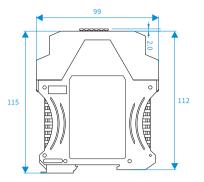
#### SCDA132 connected to light curtain, manually reset monitored, output monitoring



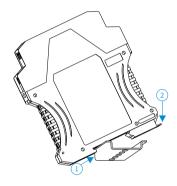


# Installation method

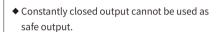


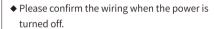


Function description: The safety relay module should be installed in the electronic control box with a protection type of IP54 or above, installed with a DIN rail (35mm) and fixed in the electronic control box.



- 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.







- ◆ Please confirm that the change of power supply voltage does not exceed the rated
- ◆ The power supply must have the function of output overvoltage and overcurrent protection.
- ◆ Not used in flammable and explosive environments.