IDEM SCR-2H Dual Channel Two-Hand Control Safety Relays





SCR2H-180030

The IDEM Two-Hand Control Safety Relay is designed in a compact housing. Two-Hand Control monitoring protects operators and machinery during tasks that require the machine to be clear. It is intended for use in safety Circuts that are designed in accordance with EN 60204-1 for example on presses, punches, and bending tools. This safety relay is designed to achieve Type IIIc Two-Hand Control Device (THCD) per ISO 13851.

Features

- Cyclical monitoring of the output contacts
- Feedback loop for monitoring downstream contactors or expansion modules
- · Short circuit and ground fault monitoring
- 22.5 mm DIN rail mounting
- Two NC output contacts

Safety Data per EN 13849-1					
Category	4				
Performance level	Ple				
MTTF _d	High (100 years)				
DC _{avg}	High (99%)				
Safety Da	ta per IEC/EN 62061				
Sil	SIL3				
HFT	1				
DC _{avg}	>90%				
SFF	95%				
PHD _{avg} (T=20a)	>3x10 ⁻⁸				

SCR-2H Dual Channel Safety Relays						
Part Number	Price	Туре	Voltage	Outputs	Connection	Drawing
SCR2H-180030	\$398.00	Two-hand control	24V AC/DC	2 NO	Fixed screw terminals	PDF



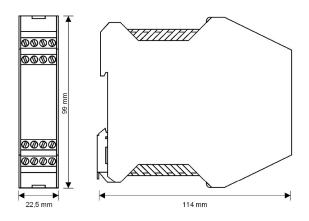




SCR21 Series Specifications						
General Specifications						
Temperature	-20° to +55°C [-4° to +131°F]					
Altitude	<2000m [6562ft]					
Degree Of Protection	IP20					
Housing	UL94 V-0 thermoplastic					
Weight	160g (5.64 oz)					
Agency Approvals and Standard	cULus, CE, TUV					
Terminal Designation per EN 50 005	0.15 to 2.5 mm ² [26 to 14 AWG]					
Input Specifications						
Nominal Voltage	24V AC/DC					
Voltage Range	90-110%					
Maximum Consumption	1.5 W (24V AC/DC)					
Nominal Frequency	50Hz-60Hz					
Control Voltage	24VDC					
Control Current	<100mA					
Short Circuit Protection	Internal PTC (Positive Temperature Coefficient) resistor					
Over Voltage Protection	Internal VDR (Voltage Dependent Resistor)					
	Output Specifications					
Mechanical Life	10 x 10 ⁶					
Contact Type	2 NC positively driven contacts					
Operate Delay	<20ms					
Release Delay	<20ms					
Maximum Switching Voltage	250V					
Thermal Current (I _{th})	Max. 12A					
Short Circuit Strength	Minimum Contact Fuses - 6A slow blow, 8A fast blow, or 10A gG					
Switching Capacity	AC-15 230VAC, 3A; DC-13 24VDC, 3A					
Switching Frequency	Max. 360 switching cycles/hr					

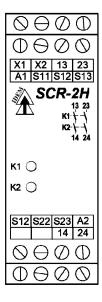
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Dimensions



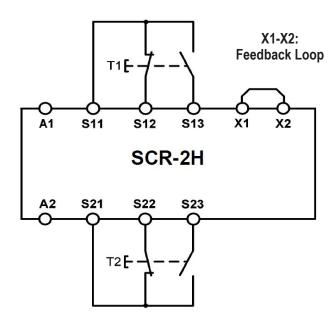
LED Diagnostics

When Safety Relay In Operation				
Power	Power applied to device			
K1	Internal relay safety ouput contacts closed			
K2	Internal relay safety output contacts closed			

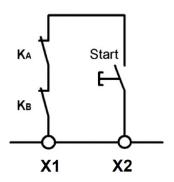


Applications

Wiring of the SCR-2H with two-hand pushbuttons



Feedback wiring



Contactor Manual Feedback

Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.