# 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
- Compact 22.5 mm housing suitable for DIN rail mounting
- Two NC output contacts

Safety Data per EN 13849-1					
Category	4				
Performance level	Ple				
MTTF <sub>d</sub>	High (100 years)				
DC <sub>avg</sub>	High (99%)				
Safety Data per IEC/EN 62061					
Sil	SIL3				
HFT	1				
DC <sub>avg</sub>	>90%				
SFF	95%				
PHD <sub>avg</sub> (T=20a)	>3x10 <sup>-8</sup>				

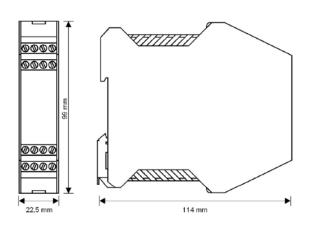
SCR-2H Dual Channel Safety Relays							
Part Number	Price	Туре	Voltage	Outputs	Connection	Drawing	
<u>SCR2H-180030</u>	\$410.00	Two-hand control	24V AC/DC	2 NO	Fixed screw terminals	PDF	



SCR21 Series Specifications General Specifications					
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 <sup>2</sup> [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 <sup>6</sup>				
Contact Type	2 NC positively driven contacts				
Operate Delay	<20ms				
Release Delay	<20ms				
Maximum Switching Voltage	250V				
Thermal Current (I <sub>th</sub> )	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				

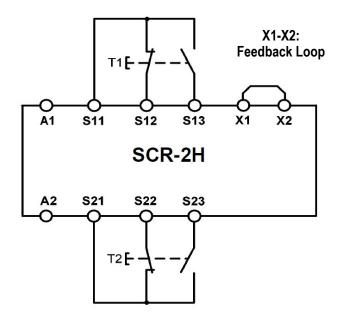
## IDEM SCR-2H Dual Channel Two-Hand Control Safety Relays

#### Dimensions



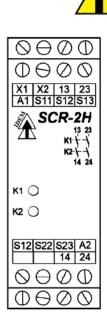
#### **Applications**

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

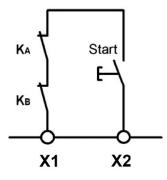


### LED Diagnostics

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



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.

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