IDEM SCR31 Series Single/Dual Channel Viper Safety Relays



SCR31-280002

Part Number

SCR31-280002

The Viper Safety Relay series from IDEM are designed with enhanced LED diagnostics and simplified wiring. Applications include guard door monitoring, emergency stop devices and sensors. The SCR31 series' internal logic uses force guided relays to achieve cross monitoring. This ensures that a single fault does not lead to the loss of the safety function and that all faults are detected at or before the next safety demand.

Note: Not for use with safety light curtains

Features

Price

\$169.00

- Single or dual channel operation
- Monitored manual or auto start/reset
- Up to 3 safety output contacts and 1 auxiliary output contact

Voltage

24V AC/DC

Outputs

3 N0 / 1 NC

Connection

Fixed screw terminals

· Easy diagnostics of status via 6 LEDs

SCR31 Series Single/Dual Channel Safety Relays

22.5 mm DIN rail mounting

Туре

Single/Dual

Safety Data	per EN 13849-1				
Category	4				
Performance level	Ple				
MTTF _d	142a (High)				
DC _{avg}	99% (High)				
Safety Data per IEC/EN 62061, IEC/EN 61508					
Sil CL	SIL CL 3				
Sil	SIL3				
HFT	1 (Dual channel)				
DC _{avg}	99% (High)				
SFF	90-99%				
PFH _d (t-20a)	3.60E ⁻⁰⁵				



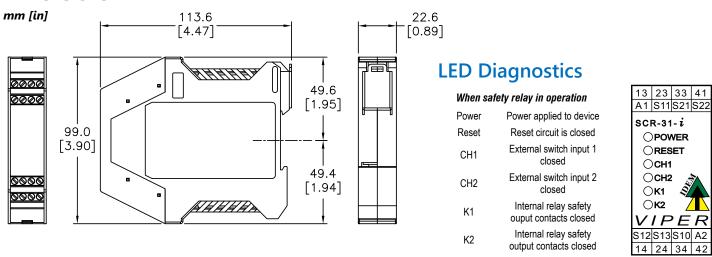




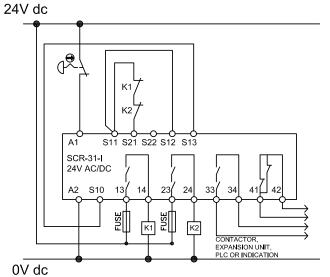
SCR31-280002-P	\$215.00	channel operation		011071110	Pluggable terminals			
OODOA Oarias Orasifications								
SCR31 Series Specifications								
General Specifications								
Temperature			-20° to +55°C [-4° to +131°F]					
Altitude			< 2,000 meters					
Vibration Resistance			Tested to IEC 60068-2-6					
Degree Of Protection		IP20						
Housing			UL 94V-0 Thermoplastic					
Weight			150g (5.3 oz)					
Agency Approvals and Standard			cULus file E258676, CE, TUV					
Terminal Designation per EN 50 005			1 x 4 mm² stranded ferruled (isolated) or 2 x 1.5 mm² stranded ferruled (isolated) or 2 x 2.5 mm² solid			stranded ferruled (isolated) or 2 x 2.5 mm ² solid		
Wire Fixing			M3.5 terminals with self-lifting wire protection or cage clamp terminals			tection or cage clamp terminals		
Input Specifications								
Nominal Voltage			24V AC/DC					
Voltage Range			85-110%					
Maximum Consumption			2.5 W (24VDC)					
Nominal Frequency			50Hz-60Hz					
Control Voltage			24VDC (S11)					
Control Current			100mA (S11)					
Short Circuit Protection			Internal PTC (Positive Temperature Coefficient resistor)					
Over Voltage Protection			Internal VDR (Voltage Dependent resistor)					
Output Specifications								
Electrical Contact Life			6A / 250VAC 100,000 cycles, 1A / 250VAC 1,000,000 cycles					
Mechanical Life			10 x 10 ⁶					
Contact Type			3 NC positively driven and 1 NO auxiliary contacts					
Operate Delay			100ms					
Release Delay			25ms					
Nominal Output Voltage			250VAC					
Thermal Current (Ith)		Max. 6A					
Short Circuit Streng	th		Minimum Contact Fuses - 4A slow blow, 6A fast blow			slow blow, 6A fast blow		
Switching Capacity			AC - 250V, 1500V, 6A, Ohmic 230V, 4A for AC-15; DC - 24V, 30W, 1.25 A, Ohmic					
Switching Frequence	Switching Frequency Max. 360 switching cycles/hr							

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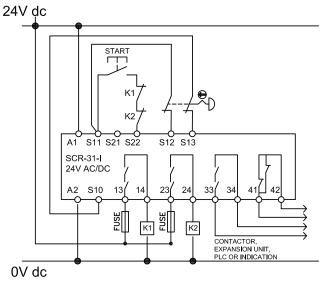
Dimensions



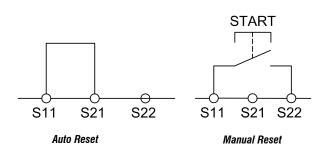
Applications

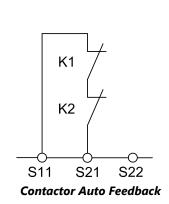


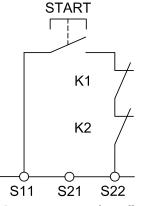




Manual restart mode (dual channel) estop







Contactor Manual Feedback

Note: A power supply unit with electrical isolation from the mains supply must be connected. External fusing of each safety output contact is necessary, a 4A slow-blow or 6A (quick action) must be provided. The maximum cabling and connecting resistance of control lines must not be exceed 300 Ohms.

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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