# IDEM SEU31TD Series Viper Expansion Modules w/Configurable Delay



The SEU31TD series Viper safety relay expansion modules can be directly wired to the SCR21, SCR31, SCR73, and SCR3142TD series safety relays to increase the number of safety output contacts and expand functionality of the base unit safety relays. They can also be used in conjunction with the SEU31 series expansion modules.

Note: Not for use with safety light curtains

#### **Features**

- Configurable time delay between 0-30 seconds
- Fault monitored via feedback contacts
- Multiple expansion modules can be connected to a single base SCR unit
- Easy diagnostics of status via 3 LEDs
- 22.5 mm DIN rail mounting

SEU31TD Series Release Delay Expansion Modules						
Part Number	Price	Туре	Voltage	Outputs	Connection	
SEU31TD-280008	\$289.00	Expansion module		Delayed: 3 NO and 1 NC (0-30 Seconds)	Fixed screw terminals	
SEU31TD-280008-P	\$337.00				Pluggable terminals	

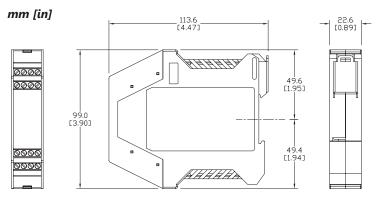


Safety Data per EN 13849-1						
	Instant	Delayed				
Category	4	3				
Performance level	Ple	Ple				
MTTF <sub>d</sub>	134a (High)	134a (High)				
DC <sub>avg</sub>	95% (High)	95% (High)				
Safety Data						
per IEC/EN	62061, IE	C/EN 61508				
Sil CL	SIL CL 3	SIL CL 3				
Sil	SIL3	SIL3				
HFT	1 (Dual channel)	1 (Dual channel)				
DC <sub>avg</sub>	95% (High)	95% (High)				
SFF	90-99%	90-99%				
PFH <sub>d</sub> (t-20a)	2.00E <sup>-04</sup>	2.00E <sup>-04</sup>				

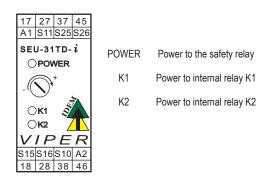
SEU31TD Series Specifications				
	General Specifications			
Temperature	-20° to +55°C [-4° to +131°F]			
Altitude	< 2,000 meters			
Vibration Resistance	Tested to IEC 60068-2-6			
Degree Of Protection	IP20			
Housing	UL 94V-0 Thermoplastic			
Weight	150g (5.3 oz)			
Agency Approvals and Standard	cULus file E258676, CE, TUV			
Terminal Designation per EN 50 005	1 x 4 mm <sup>2</sup> stranded ferruled (isolated) or 2 x 1.5 mm <sup>2</sup> stranded ferruled (isolated) or 2 x 2.5 mm <sup>2</sup> solid			
Wire Fixing	M3.5 terminals with self-lifting wire protection 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	N/A			
Control Current	N/A			
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 <sup>6</sup>			
Contact Type	Delayed: 3 NC and 1 NO (0 to 30 seconds)			
Operate Delay	100ms			
Release Delay	25ms			
Nominal Output Voltage	250VAC			
Thermal Current (Ith)	Max. 6A			
Short Circuit Strength	Minimum Contact Fuses - 4A 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 Frequency	Max. 360 switching cycles/hr			

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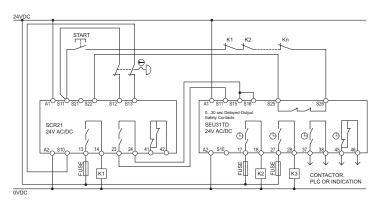
#### **Dimensions**



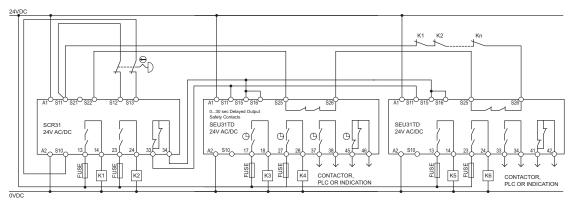
### **LED Diagnostics**



### **Applications**



Dual channel, E-Stop, manual reset with expansion unit



Dual channel, E-Stop, auto reset with multiple SEU31TD expansion units

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.

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.