SAFETY RELAYS

# Expansion Module with Time Delay for use with SCR-2/3 SEU-TD-1

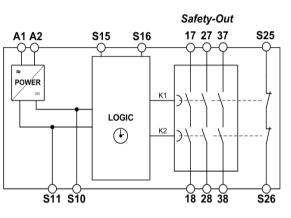
# **OVERVIEW:**

The SEU-TD-1 is an expansion unit which can be used with an existing system using SCR-2 or SCR-3 Safety Relays to allow delayed shutdown or timing to a safety application. Time delay is variable from 1 to 30 seconds.

The safety actuation is achieved from the basic SCR-2 or SCR-3 Safety Relay.

# FEATURES:

- 3NC Relay outputs
- 1NO Auxiliary contact
- Standards: EN60204-1, ISO13849-1, EN62061
- Stop Category: 1
- SILCL2 EN62061
- Up to PLd to ISO13849-1
- 3 Force guided contacts
- Fault monitoring by basic SCR device



### Block Diagram and Electrical Connection SEU-TD-1

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	A1 A2	Power
	S11	24Vdc Control Voltage
	S10 S15 S16	Control Lines
	S25 S26	Fault Monitoring
	17-18	Safety Contact 1
	27-28	Safety Contact 2
	37-38	Safety Contact 3

#### Standards:

Safety Switching Outputs Auxiliary Contact Operating Voltage Supply Deviation Control Voltage at S11 Control Current S11 to S14 Monitored Reset Circuit Loop Maximum Line Conductor Cross Section Maximum Length of Control Line Contact Material Indication - Green Contact Service Life Safety Contact Breaking Capacity

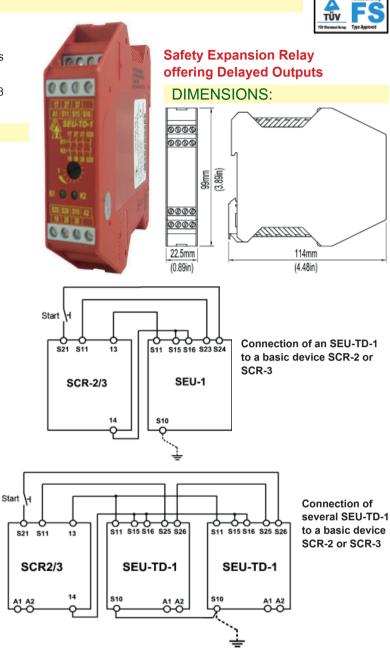
External Fuse Protection - Safety Outputs Minimum Voltage and Current Rated Insulation Voltage Degree of Protection Rated Impulse Withstand Voltage **Operating Temperature** IP Protection IEC529 Mounting Weight

24Vac/dc 110Vac or 230Vac +/-10% 24Vdc 40mA approx. Auto or monitored, manual reset 2.5 sq mm 1000m with 0.75 sq mm AgNi LED1 and LED2 OSSD closed Mechanical 1x107 Electrical 1x105 250V, 1500VA, 6A, ohmic AC 230V, 4A for AC15 DC 24V, 30W, 1.25A ohmic 24V, 30W, 2.0A for DC-13 4A slow blow or 6A quick blow 24V 20mA dc 250V IP20 4kV -15C to +40C Terminals IP20 35mm DIN rail 0.25kg approx.

EN60204-1 ISO13849-1 EN62061

3NC 1-30 secs continuously adjustable

1NO monitoring contact for basic device



Safety Classification and Reliability Data:

ISO13849-1 Performance Level Category (ISO13849-1) MTTFd DC (average) Proof Test Interval (Life) Safety Data Annual Usage Specified PL or SILCL were determined under worst case conditions

487 years

92.1%

20 vears

365 days per year

24 hours per day

Full load AC1

Test cycle 3600 seconds/cycle

## EN62061

SILCL Proof Test Interval (life) 20 years Hardware Fault Tolerance 92.1% DC (average) PFHd 1.03 x 10<sup>-7</sup>

SALES NUMBER	TYPE	TERMINAL TYPE	SUPPLY VOLTAGE	DELAYED OUTPUT CONTACTS
180015	SEU-TD-1	Standard Screw Terminals	24Vac/dc	3NC 1NO
180016	SEU-TD-1		110Vac	3NC 1NO
180017	SEU-TD-1		230Vac	3NC 1NO
180015-P	SEU-TD-1	Pluggable Screw Terminals	24Vac/dc	3NC 1NO
180016-P	SEU-TD-1		110Vac	3NC 1NO
180017-P	SEU-TD-1		230Vac	3NC 1NO