Expansion Module for use with SCR-2 or SCR-3 Type: SEU-1

OVERVIEW:

The SEU-1 is an expansion unit which offers 3 additional NC Safety Output Contacts.

An existing system using SCR-2 or SCR-3 can be expanded modularly.

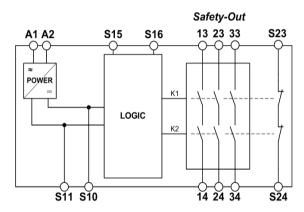
The safety actuation is achieved from the basic SCR-2 or SCR-3 Safety Relay.

FEATURES:

- 3NC Relay outputs
- 1NO Auxiliary contact (fault monitoring)
- Standards: EN60204-1, ISO13849-1, EN62061
- Stop Category: 1
- Up to PLe to ISO13849-1
- SILCL3 EN62061
- 3 Force guided contacts

۸1 ۸2

Fault monitoring by basic SCR device



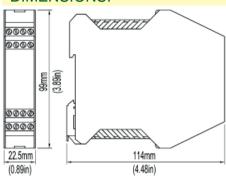
Block Diagram and Electrical Connection SEU-1

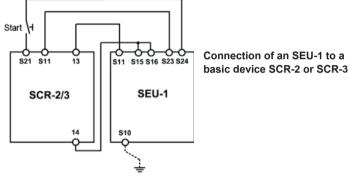
ATAZ	Powei
S11	24Vdc Control Voltage
S10 S15 S16	Control Lines
S23 S24	Fault Monitoring
13-14	Safety Contact 1
23-24	Safety Contact 2
33-34	Safety Contact 3

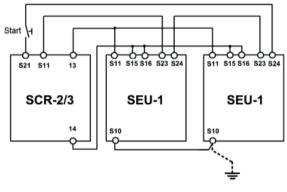


Safety Expansion Relay 3NC Outputs

DIMENSIONS:







Connection of several SEU-1 to a basic device SCR-2 or SCR-3

Standards: EN60204-1 ISO13849-1 EN62061

Safety Switching Outputs **Auxiliary Contact** Operating Voltage 24Vac/dc 110Vac or 230Vac Supply Deviation +/-10% Control Voltage at S11 24Vdc Control Current S11 to S14 40mA approx. Maximum Line Conductor Cross Section 2.5 sq mm Maximum Length of Control Line 1000m with 0.75 sq mm Contact Material AgNi LED1 and LED2 OSSD closed Indication - Green Contact Service Life Mechanical 1x10⁷ Electrical 1x10⁵ Safety Contact Breaking Capacity 230V, 4A for AC15

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

Mechanical 1x10' Electrical 1x
AC 250V, 1500VA, 6A, ohmic
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
170g approx.

Safety Classification and Reliability Data:

 Specified PL or SILCL were determined under worst case conditions

ISO13849-1
Performance Level e
Category (ISO13849-1) 4
MTTF6 56
DC (average) 99
Proof Test Interval (Life) 2
Safety Data Annual Usage 36

567 years 99% 20 years 365 days per year 24 hours per day

Test cycle 3600 seconds/cycle Full load AC15

EN62061

SILCL 3
Proof Test Interval (life) 20 years
Hardware Fault Tolerance 1
DC (average) 99%
PFHd 1.2 x 10-8

SALES NUMBER	TYPE	TERMINAL TYPE	SUPPLY VOLTAGE	OUTPUT CONTACTS	AUXILIARY OUTPUT CONTACTS
180010	SEU-1	Standard Screw Terminals	24Vac/dc	3NC	1NO
180011	SEU-1		110Vac	3NC	1NO
180012	SEU-1		230Vac	3NC	1NO
180010-P	SEU-1	Pluggable Screw Terminals	24Vac/dc	3NC	1NO
180011-P	SEU-1		110Vac	3NC	1NO
180012-P	SEU-1		230Vac	3NC	1NO