

## Safety edges

### SE-100C



- To monitor 1 or 2 safety edges
- 1 safety contact, STOP 0
- 1 signalling output (changeover contact)
- Operating voltage 24 VDC
- LED display

### Technical data

Standards:	EN 1760-2, IEC 60947-5-3, IEC 61508
Start conditions:	automatic
Feedback circuit (Y/N):	no
Response time:	16 ms
Time to readiness:	max. 300 ms
Opening duration:	max. 300 ms
Closing duration:	typ. 15 ms
Rated operating voltage $U_e$ :	24 VDC (+ 20 % / -10%)
Rated operating current $I_e$ :	ca. 150 mA
Internal electronic protection (Y/N):	yes
Power consumption:	< 4 W
<b>Monitored inputs:</b>	
- Short-circuit recognition:	yes
- Wire breakage detection:	yes
- Earth connection detection:	yes
<b>Outputs:</b>	
Stop category 0:	1
Stop category 1:	0
Number of safety contacts:	1
Number of auxiliary contacts:	1
Number of signalling outputs:	1
Max. switching capacity of the safety contacts:	2 A / 230 VAC 2 A / 24 VDC
Utilization category to EN 60947-5-1:	AC-15: 230 V / 2 A DC-13: 24 V / 2 A
Mechanical life:	20 million operations
LED display:	supply voltage, safety edge function
<b>Ambient conditions:</b>	
Environmental temperature:	+5 °C ... +55 °C
Protection class:	Enclosure: IP40, Terminals: IP20, Clearance: IP54
Mounting:	Snaps onto standard DIN rail to EN 60715
Connection type:	Screw connection
- max. cable section:	max. 2 x 1.5 mm <sup>2</sup> (incl. conductor ferrules)
Weight:	164 g
Dimensions (Height/Width/Depth):	100 x 22.5 x 120 mm

### Approvals



### Ordering details

SE-100C

### Classification

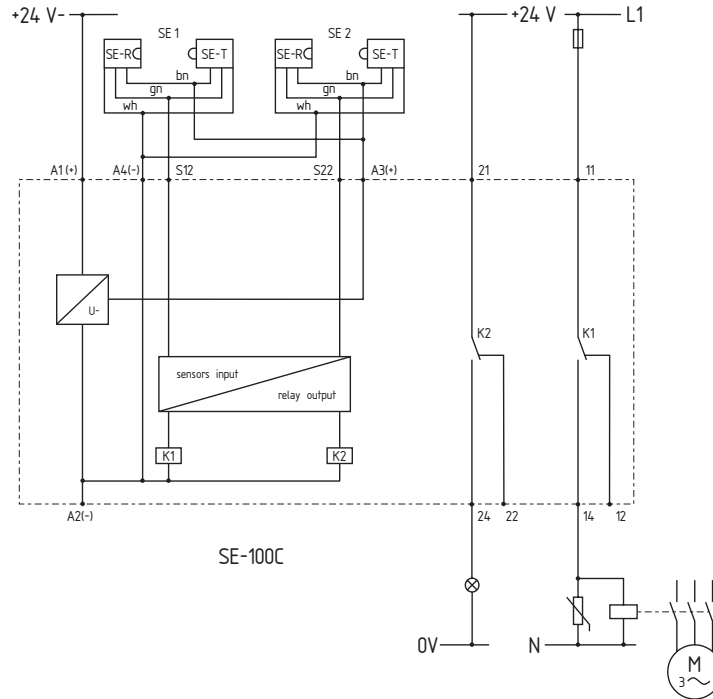
<b>Safety parameters:</b>	
Standards:	EN ISO 13849-1; IEC 61508; IEC 60947-5-3
PL:	up to c
Category:	up to 1
PFH value:	1.73 x 10 <sup>-6</sup> /h for max. 36,500 switching cycles/year and max. 60% contact load
SIL:	up to 1
Mission time:	20 years

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### Note

- Monitoring the safety edges SE 40 / SE 70 with a safety monitoring unit SE-100C for PL c and category 1.
- If only one safety edges SE 40 / SE 70 is connected, the terminals S12-S22 must be bridged.
- The manual reset function, if required, must be realized in the machine control. Both re-initialization and auto-reset must comply with the requirements of EN 1760-2 (diagram A2, A3).

### Wiring diagram



### Note

- The wiring diagram is shown for the de-energized condition.
- The overall machine safety depends on the professional mounting and installation of the safety monitoring module and the signal transmitter, as well as on the correct and professional electrical connection of the components.
- If there is any risk whatsoever, the machine may not be restarted.
- Inductive loads (e.g. contactors, relays, etc.) are to be suppressed by means of a suitable circuit.