

Safety edges

SE-400C

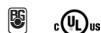


- To monitor 1 safety edge
- 2 safety contacts, STOP 0
- 1 semi-conductor signalling output
- Operating voltage 24 VDC
- LED display
- Start function

Technical data

Standards:	EN 1760-2, IEC 60947-5-3, IEC 61508
Start conditions:	automatic or start button
Feedback circuit (Y/N):	yes
Response time:	32 ms
Time to readiness:	ca. 32 ms
Opening duration:	ca. 32 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
Monitored inputs:	
- Short-circuit recognition:	yes
- Wire breakage detection:	yes
- Earth connection detection:	yes
Outputs:	
Stop category 0:	2
Stop category 1:	0
Number of safety contacts:	2
Number of auxiliary contacts:	0
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 / 3 A
Mechanical life:	30 million operations
LED display:	supply voltage, safety edge function
Ambient conditions:	
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 ² (incl. conductor ferrules)
Weight:	184 g
Dimensions (Height/Width/Depth):	100 x 22.5 x 120 mm

Approvals



Ordering details

SE-400C


Classification

Safety parameters:

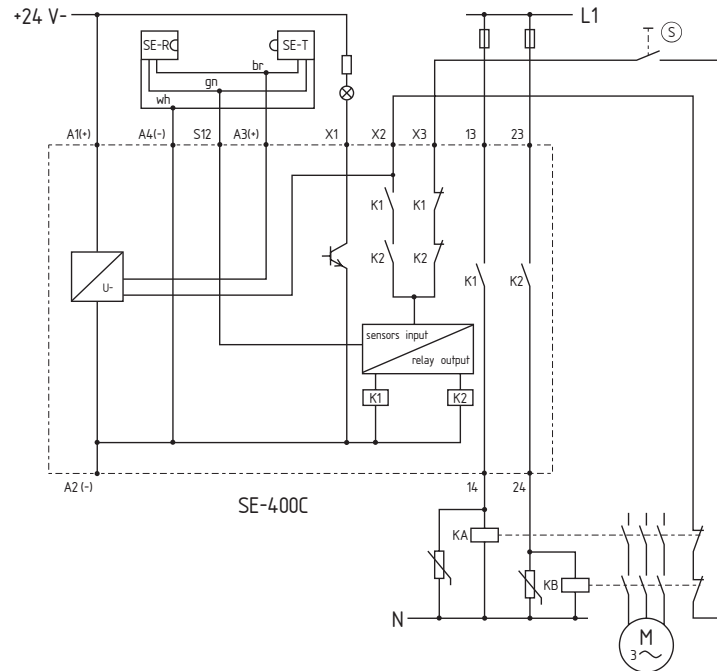
Standards:	EN ISO 13849-1; IEC 61508; IEC 60947-5-3
PL:	up to e
Category:	up to 4
PFH value:	5.0 x 10 ⁻⁹ /h for max. 36,500 switching cycles/year and max. 60% contact load
SIL:	up to 3
Mission time:	20 years

Safety edges

Note

- Monitoring the safety edges SE 40 / SE 70 with a safety monitoring unit SE-400C for PL e and category 4.
- The feedback circuit monitors positions of the contactors KA and KB.
- A Start-Reset- push button  can optionally be connected to the feedback circuit. 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.