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# **Datasheet - SE-100C**

Safety-related tactile sensor / Safety edges / Monitoring of safety edges

X Preferred typ





(Minor differences between the printed image and the original product may exist!)

### **Ordering details**

Product type description Article number EAN Code eCl@ss

Approval

Approval

TUV COUS USA/CAN

SE-100C

101153919

4030661289168 27-27-92-15

To monitor 1 ... 2 safety edge(s)
1 safety contact, STOP 0
1 Signalling output

# Classification

Standards EN ISO 13849-1	
PL up c	
Control category up 1	
PFH value 2.24 x 10-6 /h	
- notice up to max. 5000 swi	tching cycles/year
Mission time 20 Years	

### **Global Properties**

Permanent light	SE-100C
Standards	EN ISO 13856-2, EN ISO 13849-1
Compliance with the Directives (Y/N) CE	Yes
Product utilisation up to category in accordance with EN 954	1
Climatic stress	EN ISO 13856-2
Mounting	snaps onto standard DIN rail to EN 60715
- enclosure	IP40
- Clearance	IP54
- terminals	IP20
Materials	
- Material of the housings	Plastic, PE (Black), Crastin (Grey)
Weight	166
Start conditions	Automatic
Start input (Y/N)	No
Feedback circuit (Y/N)	No
Reset after disconnection of supply voltage (Y/N)	Yes
Automatic reset function	Yes
Reset with edge detection (Y/N)	No
Response time	16
Time to readiness	max. 300 ms

### Mechanical data

Connection type	Screw connection
Cable section	
- Min. Cable section	
- Max. Cable section	2 x 1.5
Detachable terminals (Y/N)	No
Mechanical life	20.000.000 operations
notice	All indications about the cable section are including the conductor ferrules.
Resistance to vibration	10 55 HZ, Amplitude 0,15 mm
Closing duration	max. 300 ms
Opening duration	typ. 15 ms

### **Ambient conditions**

+5
+55
4 kV
III To VDE 0110
2 To VDE 0110

# Electromagnetic compatibility (EMC)

EMC rating	conforming to EMC Directive
Electrical data	
Rated DC voltage for controls	
- Max. rated DC voltage for controls	21.6
- Max. rated DC voltage for controls	28.8

Rated AC voltage for controls, 50 Hz	
- Min. rated AC voltage for controls, 50 Hz	-
- Max. rated AC voltage for controls, 50 Hz	-
Rated AC voltage for controls, 60 Hz	
- Min. rated AC voltage for controls, 60 Hz	-
- Max. rated AC voltage for controls, 60 Hz	-
Power consumption	< 4
Type of actuation	DC
Rated operating voltage Ue	24 VDC +20% / -10%
Operating current le	approx. 150 mA
Electronic protection (Y/N)	Yes

# Inputs

## Outputs

Stop category	0
Number of safety contacts	1
Number of auxiliary contacts	1
Number of signalling outputs	1
Switching capacity	
- Switching capacity of the safety contacts	230 VAC / 2 A; 24 VDC / 2 A
- Switching capacity of the signaling/diagnostic outputs	230 VAC / 2 A; 24 VDC / 2 A
- Switching capacity of the auxiliary contacts	230 VAC / 2 A; 24 VDC / 2 A
Fuse rating	
- Protection of the safety contacts	6 A gG D-fuse
Utilisation category	AC-15: 230 V / 2 A; DC-13: 24 V / 2 A
Number of undelayed semi-conductor outputs with signaling function	0
Number of undelayed outputs with signaling function (with contact)	1
Number of delayed semi-conductor outputs with signaling function.	0
Number of delayed outputs with signalling function (with contact).	0
Number of secure undelayed semi-conductor outputs with signaling function	0
Number of secure, undelayed outputs with signaling function, with contact.	1
Number of secure, delayed semi-conductor outputs with signaling function	0
Number of secure, delayed outputs with signaling function (with contact).	0

## LED switching conditions display

LED switching conditions display (Y/N)	Yes
Number of LED's	2
LED switching conditions display	
- The integrated LEDs indicate the following operating states.	

- Safety edge function

#### Miscellaneous data

Applications	Safety edges
Dimensions	
Dimensions	
Width	22.5 mm
Height	100 mm
Depth	121 mm

#### notice

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 it any risk whatsoever, the machine may not be restarted.

#### notice - Wiring example

Monitoring the safety edges SE 40 / SE 70 with a safety monitoring unit SE-100C up to PL c and Category 1.

If only one safety edges is connected, the terminals S12/S22 must be bridged.

The manual reset function, if required, must be realised in the machine control.

Both re-initialisation and auto-reset must comply with the requirements of EN 1760-2 (diagram A2, A3).

The wiring diagram is shown for the de-energised condition.

#### Documents

**Operating instructions and Declaration of conformity** (it) 235 kB, 11.01.2018 Code: mrl\_se100c\_it

**Operating instructions and Declaration of conformity** (nl) 232 kB, 11.01.2018 Code: mrl\_se100c\_nl

**Operating instructions and Declaration of conformity** (da) 237 kB, 11.01.2018 Code: mrl\_se100c\_da

**Operating instructions and Declaration of conformity** (en) 230 kB, 08.12.2017 Code: mrl\_se100c\_en

**Operating instructions and Declaration of conformity** (es) 235 kB, 10.01.2018 Code: mrl\_se100c\_es

**Operating instructions and Declaration of conformity** (pt) 239 kB, 11.01.2018 Code: mrl\_se100c\_pt

**Operating instructions and Declaration of conformity** (de) 200 kB, 08.12.2017 Code: mrl\_se100c\_de

**Operating instructions and Declaration of conformity** (fr) 236 kB, 11.01.2018 Code: mrl\_se100c\_fr

Operating instructions and Declaration of conformity (pl) 244 kB, 11.01.2018

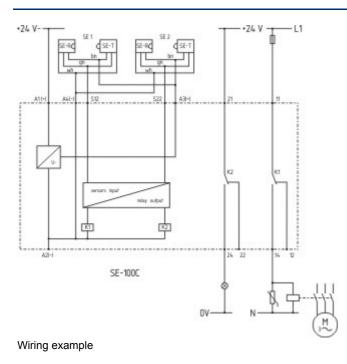
Code: mrl\_se100c\_pl

Operating instructions and Declaration of conformity (jp) 442 kB, 02.09.2014

Code: mrl\_se100c\_jp

TÜV certification (de, en) 233 kB, 05.05.2015 Code: z\_se4p03

### Images



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The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:40:23h Kasbase 3.3.0.F.64I