Datasheet - SE-400C

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





- To monitor 1 safety edge(s)
- 2 safety contacts, STOP 0
- 1 Signalling output



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

Ordering details

 Product type description
 SE-400C

 Article number
 101153920

 EAN Code
 4030661289175

 eCl@ss
 27-27-92-15

Approval

Approval



Classification

Standards

PL

Control category

PFH value

- notice

Mission time

EN ISO 13849-1

up e

up 4

2.47 x 10 -8/h

up to max. 50000 switching cycles/year

20 Years

Global Properties

Permanent light SE-400C

Standards EN ISO 13856-2, EN ISO 13849-1

Yes

4

Compliance with the Directives (Y/N) C E

Product utilisation up to category in accordance with EN 954

Climatic stress EN ISO 13856-2

Mounting snaps onto standard DIN rail to EN 60715

Clearance
enclosure
terminals
IP20

Materials

- Material of the housings Plastic, PE (Black), Crastin (Grey)

Weight 184

Start conditions Automatic or Start button

Start input (Y/N)
Yes
Feedback circuit (Y/N)
Reset after disconnection of supply voltage (Y/N)
Automatic reset function
Yes
Reset with edge detection (Y/N)
Yes
Response time
32

Time to readiness approx. 32 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 30.000.000 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 approx. 32 ms
Opening duration typ. 15 ms

Ambient conditions

Ambient temperature

Min. environmental temperature
 Max. environmental temperature
 +55

Protection class

Air clearances and creepage distances To IEC/EN 60664-1

- Rated impulse withstand voltage U_{imp} 4 kV

- Overvoltage category- Degree of pollutionIII To VDE 01102 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- Max. rated DC voltage for controls28.8

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 Monitored inputs - Short-circuit recognition (Y/N) Yes - Wire breakage detection (Y/N) Yes - Earth connection detection (Y/N) Yes Cable length 200 **Outputs** 0 Stop category 2 Number of safety contacts 0 Number of auxiliary contacts Number of signalling outputs Switching capacity - Switching capacity of the safety contacts 230 VAC / 2 A; 24 VDC / 2 A - Switching capacity of the signaling/diagnostic outputs 50 mA Fuse rating - Protection of the safety contacts 4 A gG D-fuse Utilisation category AC-15: 230 V / 2 A; DC-13: 24 V / 3 A Number of undelayed semi-conductor outputs with signaling function 1 Number of undelayed outputs with signaling function (with contact) 0 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 2 contact. Number of secure, delayed semi-conductor outputs with signaling function n Number of secure, delayed outputs with signaling function (with contact). 0 LED switching conditions display LED switching conditions display (Y/N) Yes

2

Number of LED's

LED switching conditions display

Safety edge functionSupply voltage UB

- The integrated LEDs indicate the following operating states.

Miscellaneous data

Applications



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-400C up to PL e and Category 4.

The feedback circuit monitors the position of the contactors KA and KB.

A Start-Reset-Taster (S) can optionally be connected to the feedback circuit.

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 (pl) 244 kB, 24.10.2018

Code: mrl_se400c_pl

Operating instructions and Declaration of conformity (fr) 233 kB, 24.10.2018

Code: mrl_se400c_fr

Operating instructions and Declaration of conformity (pt) 236 kB, 24.10.2018

Code: mrl_se400c_pt

Operating instructions and Declaration of conformity (de) 203 kB, 27.09.2018

Code: mrl_se400c_de

Operating instructions and Declaration of conformity (nl) 229 kB, 24.10.2018

Code: mrl_se400c_nl

Operating instructions and Declaration of conformity (en) 232 kB, 27.09.2018

Code: mrl_se400c_en

Operating instructions and Declaration of conformity (it) 234 kB, 24.10.2018

Code: mrl_se400c_it

Operating instructions and Declaration of conformity (cn) 354 kB, 22.11.2018

Code: mrl se400c cn

Operating instructions and Declaration of conformity (jp) 299 kB, 11.09.2014

Code: mrl_se400c_jp

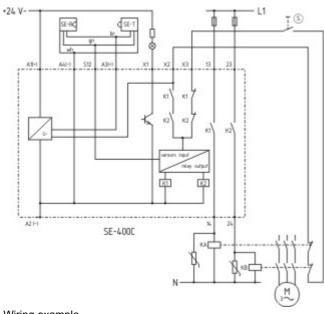
Operating instructions and Declaration of conformity (es) 235 kB, 24.10.2018

Code: mrl_se400c_es

TÜV certification (de, en) 233 kB, 05.05.2015

Code: z_se4p03

Images



Wiring example

K.A. Schmersal GmbH & Co. KG, Möddinghofe 30, D-42279 Wuppertal The data and values have been checked throroughly. Technical modifications and errors excepted. Generiert am 13.02.2019 - 14:40:27h Kasbase 3.3.0.F.64l