DATASHEET





SE-304 C AUSWERTEGERAET

- To monitor 1 ... 4 safety edge(s)
- 1 safety contact, STOP 0
- 1 Signalling output

Data

Ordering data

EAN (European Article Number) 4030661293622

eCl@ss number, Version 9.0 27-37-18-19

eCl@ss number, Version 11.0 27-37-18-19

ETIM number, version 6.0 EC001449

Approval - Standards

Certificates TÜV

EAC

General data

Standards EN ISO 13850

EN ISO 13849-1

Climatic stress EN ISO 13856-2

Enclosure material Glass-fibre, thermoplastic

Gross weight 175 g

Reaction time, maximum 17 ms

General data - Features

0 Stop-Category Electronic Fuse Yes Wire breakage detection Yes Short-circuit recognition Yes Start input Yes Feedback circuit Yes Automatic reset function Yes Reset edge detection Yes Reset after disconnection of Yes supply voltage Earth connection detection Yes Integral System Diagnostics, Yes status Number of LEDs 5 Number of undelayed semi-1 conductor outputs with signaling function Number of safety contacts 1 Number of signalling outputs 1

Safety appraisal

Performance level, up to d
Control category to EN13849 3
Control category to EN954 3
PFH-value $1.01 \times 10^{-7} /h$

Note (PFH-value) up to max. 5,000 switching cycles/year

Mission Time 20 Year(s)

Mechanical data

Mechanical life, minimum 10,000,000 Operations

Mounting Snaps onto standard DIN rail to EN 60715

Mechanical data - Connection technique

Terminal Connector Screw connection

Length of cable 200 m

Cable section, maximum 2 x 1.5 mm²

Note (Cable section) All indications about the cable section are including the conductor ferrules.

Mechanical data - Dimensions

Width 22.5 mm

Height 100 mm

Depth 121 mm

Ambient conditions

Degree of protection of the

enclosure

IP40

Degree of protection of the

mounting space

IP54

Degree of protection of clips or

terminals

IP20

Ambient temperature, minimum +5 °C

Ambient temperature, maximum +55 °C

Resistance to vibrations to EN

10 ... 55 Hz, amplitude 0.15 mm

60068-2-6

Ambient conditions - Insulation value

Rated impulse withstand

4 kV

voltage U_{imp}

Overvoltage category III

Degree of pollution to VDE 0110 2

Electrical data

Frequency range 50 Hz

Rated operating voltage 24 VDC +20% / -10%

24 VAC +10% / -10%

Operating current 500 mA

Rated AC voltage for controls,

50 Hz, minimum

21.6 VAC

Rated control voltage at AC 50

Hz, maximum

28.8 VAC

Rated AC voltage for controls at

DC minimum

21.6 VDC

Rated control voltage at DC,

maximum

28.8 VDC

Utilisation category AC-15 230 VAC

Utilisation category AC-15 2 A

Utilisation category DC-13 24 VDC

Utilisation category DC-13 2 A

Electrical power consumption,

maximum

4 W

Pull-in delay at RESET 100 ms ... 2000 ms

Electrical data - Electromagnetic compatibility (EMC)

EMC rating EMC-Directive

Status indication

Indicated operating states Authorised operation

fault indication

Other data

Note (applications)

Safety edges

Notes

Note (General)

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.

Circuit example

Note (Wiring diagram)

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.

Monitoring the safety edges SE 40 / SE 70 with a safety monitoring unit SE-304C $\,$

up to PL d and Category 3.

Manual reset function or auto-reset: the manual reset function is triggered by an edge-sensitive signal (edge switching "0-1-0" within 100 ms up to 2 s) (X2/X3). Alternatively, the auto-reset function can be activated by a connection (A3/X2). If less than 4 safety edges are connected, the following diagram must be

observed.

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The details and data referred to have been carefully checked. Images may diverge from original. Further technical data can be found in the manual. Technical amendments and errors possible.

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