



## SE-100 C AUSWERTEGERAET

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

## Data

### Ordering data

EAN (European Article Number)	4030661289168
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 cULus EAC
--------------	---------------------

### General data

Standards	EN ISO 13850 EN ISO 13849-1
Climatic stress	EN ISO 13856-2
Enclosure material	Plastic, PE (Black), Crastin (Grey)

Gross weight	166 g
Time to readiness, maximum	300 ms
Reaction time, maximum	16 ms

## General data - Features

Stop-Category	0
Electronic Fuse	Yes
Wire breakage detection	Yes
Short-circuit recognition	Yes
Automatic reset function	Yes
Reset after disconnection of supply voltage	Yes
Earth connection detection	Yes
Integral System Diagnostics, status	Yes
Number of auxiliary contacts	1
Number of LEDs	2
Number of safety contacts	1
Number of signalling outputs	1

## Safety appraisal

Performance level, up to	c
Control category to EN13849	1
Control category to EN954	1
PFH-value	$2.24 \times 10^{-6}$ /h
Note (PFH-value)	up to max. 5,000 switching cycles/year
Mission Time	20 Year(s)

## Mechanical data

Mechanical life, minimum	20,000,000 Operations
Mounting	Snap 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 mm <sup>2</sup>
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 60068-2-6	10 ... 55 Hz, amplitude 0.15 mm

## Ambient conditions - Insulation value

Rated impulse withstand voltage $U_{imp}$	4 kV
Overvoltage category	III
Degree of pollution to VDE 0110	2

## Electrical data

Rated operating voltage	24 VDC +20% / -10%
Operating current	150 mA
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

## Electrical data - Electromagnetic compatibility (EMC)

EMC rating	EMC-Directive
------------	---------------

## Status indication

Indicated operating states	Safety edge function
----------------------------	----------------------

## 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 is any risk whatsoever, the machine may not be restarted.
----------------	--

### **Circuit example**

Note (Wiring diagram)	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 edge is connected, the terminals S12/S22 must be bridged. The manual reset function, if required, is realised by 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.
-----------------------	--

Schmersal, Inc., 15 Skyline Drive, Hawthorne, NY 10532

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.

Generated on: 11/9/2021, 10:47 AM