

## ITEM 103489 SOM-4E-0A-C1

Description	Technical data	Accessories	Downloads
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### Features

- › 1 redundant OSSD
- › Control by SMOx/GMOx
- › Control by machine control
- › Up to 4 inputs
- › Diagnostics via AS-Interface

### OSSDs (Output Signal Switching Devices)

The OSSD is of redundant design according to category 4 EN ISO 13849-1. Safety-related control is via the bus by a suitable monitor, for example by a GMOx or SMOx. Operational switching is also possible directly by the control system with appropriate parameter settings.

### Inputs and outputs

A feedback loop can be connected directly to the SOM. Depending on the parameter settings, further inputs and outputs can also be used.

### LED function display

<b>PWR</b>	Green, AS-Interface power
<b>ASi</b>	Red, bus communication
<b>OUT</b>	Yellow, state of output signal switching device
<b>ALARM</b>	Red, can be set as required by control system
<b>I1...I3</b>	State of the corresponding input
<b>1.Y1</b>	State of the input

## Approvals



## Mechanical values and environment

Housing material	Polyamide PA 6.6
Ambient temperature	0 ... 55 °C
Degree of protection	IP20
Mounting method	Mounting rail 35mm according to DIN EN 60715 TH35
Reaction time	
Safety circuit off	max.50 ms
Connection	Connection terminals
	<b>E1 terminal I1, E2 terminal I2, E3 terminal I3</b>
Number of inputs	3
	<b>Terminal 1.Y1, I+</b>
Number of inputs	1
	<b>Output contact set 1: 1.13, 1.14; output contact set 2: 1.23, 1.24</b>
Number of safety contacts	1

## Electrical connection ratings

ASi voltage	DC	30 V
ASi operating current		max.200 mA
Current		0,1 A Supply for sensors
LED indicator		
		3 LEDs yellow (I1, I2, I3) state of input E1, E2 and E3
		1 x LED yellow (1. Y1) state EDM input 1.Y1
		LED green (Pwr) AS-i power supply
		LED red (Fault) AS-i fault
		LED yellow (Out) relay has switched and error message
		LED red (Alarm) PLC is signaling alarm
Rated insulation voltage U <sub>i</sub>		6000 V

Overvoltage category according to IEC EN 60664-1	3
Connecting cable	9W
Max. contact load	DC -13 3A 24V AC -15 3A 250V
	<b>E1 terminal I1, E2 terminal I2, E3 terminal I3</b>
Type of input	standard
	<b>Terminal 1.Y1, I+</b>
Type of input	Feedback loop (EDM)
Current via feedback loop	
at 24V DC	10 mA From AS-i (EDM)
	<b>Output contact set 1: 1.13, 1.14; output contact set 2: 1.23, 1.24</b>
Type of output	
2 NO contacts per safety output	Relay contacts, floating, positively driven (redundant)

### Interface, bus

Data interface	Address programming socket AS-i (ADDR)
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### Controls and indicators

Control/indicator	Switch with position RUN/PRG <sup>[1]</sup>
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### Miscellaneous

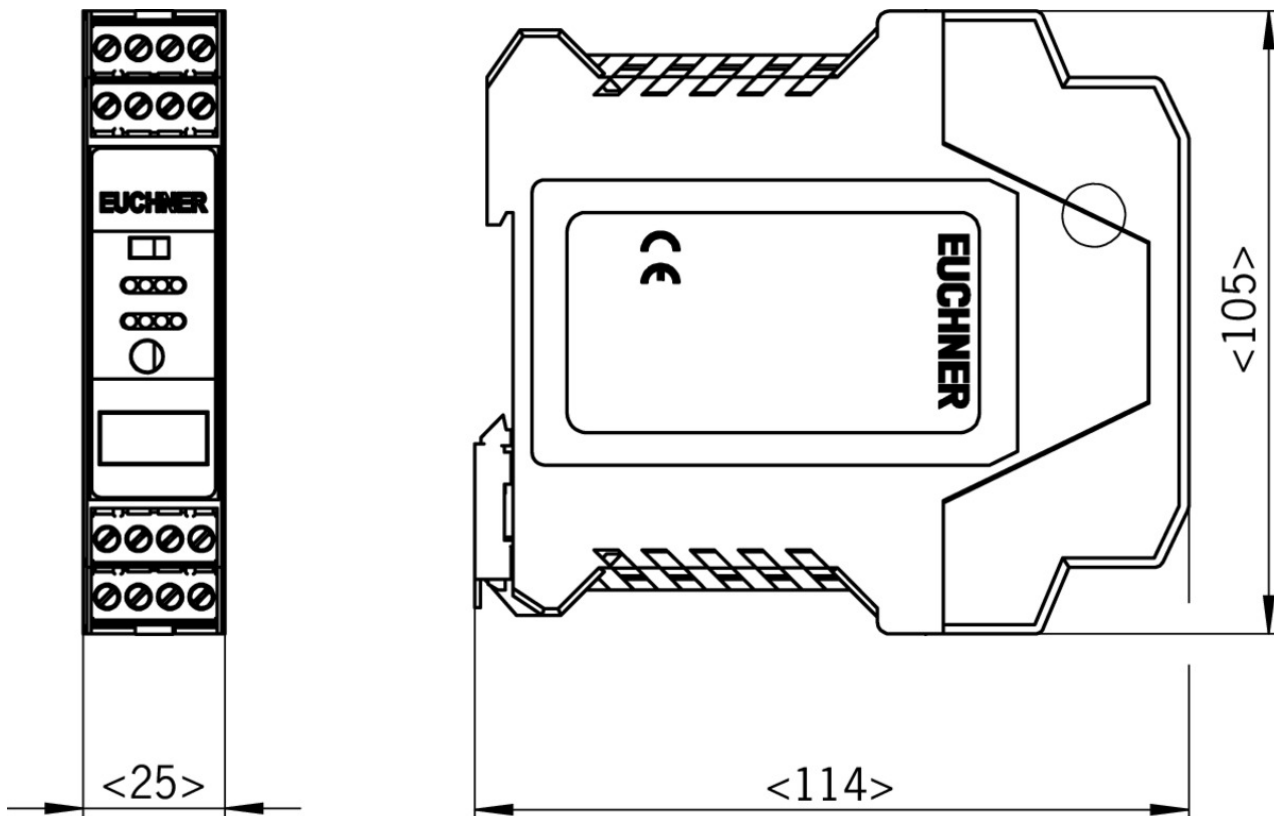
in compliance with	EN 61 508, EN 62 061, EN ISO 13 849-1
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### Reliability values acc. to EN ISO 13849-1

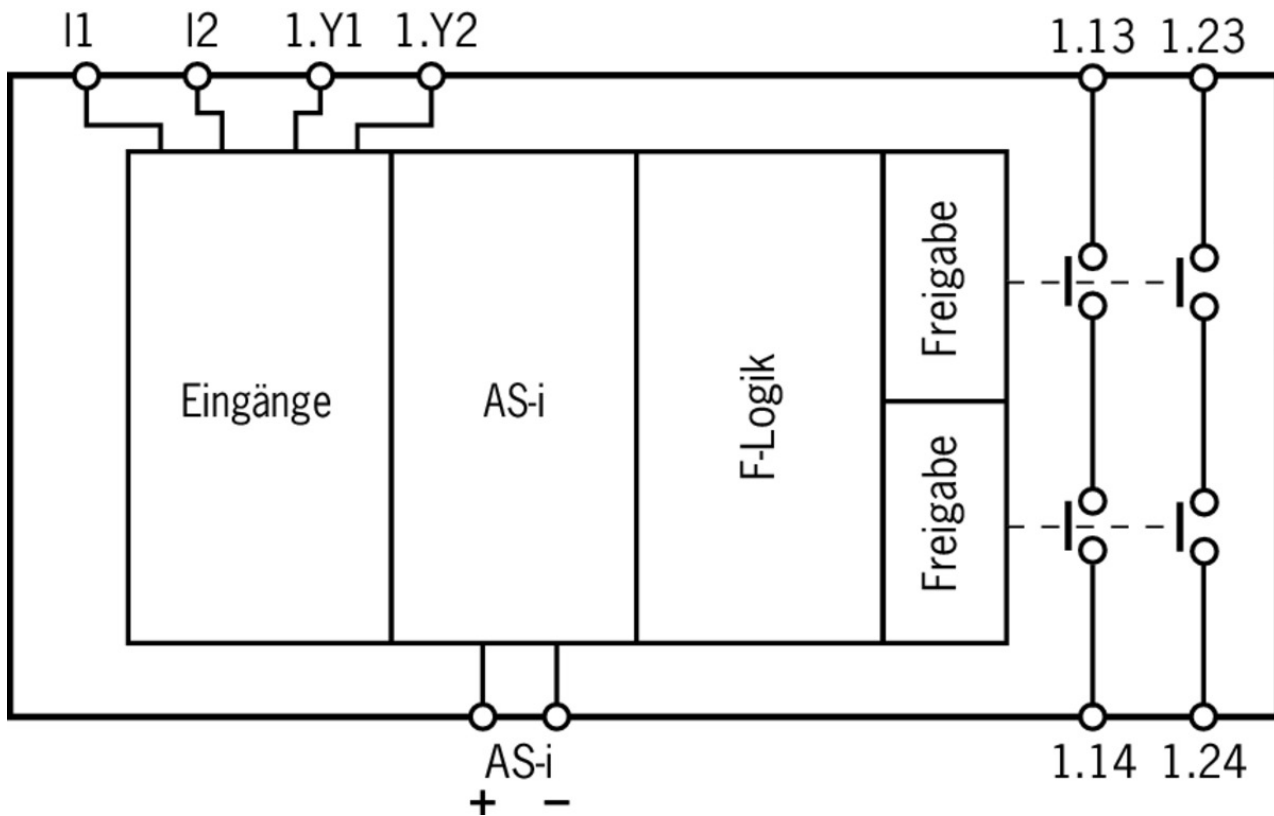
Performance Level	PL e
Category	4
PFH <sub>D</sub>	$3.3 \times 10^{-9}$
SIL CL	3
Mission time	20 y

[1] PRG: safety-related AS-i address can be programmed; protected operation not possible, RUN: Protected operation possible; non-safety-related AS-i address can be programmed

Dimension drawing






Block diagram









## Instructions





### ☑ Connecting instruction (abridged version) SOM-4E-0A-C1

	Doc. no.	Version	Language	Download
Anschlussanleitung (Kurzfassung) SOM-4E-0A-C1	103572	08-03/16		 0.9 MB
Connecting instruction (abridged version) SOM-4E-0A-C1				

### ☑ Montageanweisung







	Doc. no.	Version	Language	Download
Montageanweisung	103571	02-09/11		 1.0 MB
Instrucciones de montaje				
Notice de montage				
Istruzioni per il montaggio				
Commissioning Instruction				

### ☑ Systemhandbuch AS-i-Safety-Relaisausgangsmodule mit Diagnose-Slave

	Doc. no.	Version	Language	Download
Systemhandbuch AS-i-Safety-Relaisausgangsmodule mit Diagnose-Slave	103573	03-03/16		 1.6 MB
User Manual AS-i Safety Relay Output Module with Diagnostic Slave	103573	03-03/16		 1.6 MB






## Catalogs

### ☑ Sicherheitsschalter mit AS-Interface Safety Switches with AS-Interface Interrupteurs de sécurité avec AS-Interface

	Doc. no.	Version	Language	Download
Sicherheitsschalter mit AS-Interface	092164	11-04/17		 2.3 MB
Interrupteurs de sécurité avec AS-Interface	112564	11-04/17		 2.3 MB
Safety Switches with AS-Interface	092332	11-04/17		 2.3 MB

## Declaration of conformity

### ☑ EU-Konformitätserklärung

	Doc. no.	Version	Language	Download
EU-Konformitätserklärung	2100627	06-02/16		 0.5 MB
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity			