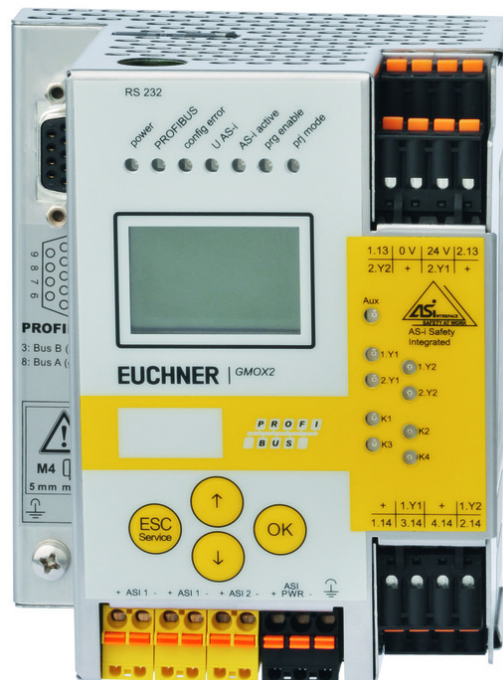


## ITEM 103302 GMOX-PR-22DN-C16

Description	Technical data	Accessories	Downloads
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### Features

- › Two AS-i masters
- › Display and buttons for diagnostics and adjustment
- › Memory card for different programs
- › Adjustable time-delay
- › 16 OSSDs

### Gateway to Profibus

For connection to a Profibus DP as a slave and as a master for two AS-i buses according to specification 3.0. Detection of ground shunt, double addressing and EMC problems.

Rapid commissioning with the display without PC. Direct display of faults with plain-text messages. Comprehensive AS-i diagnostics integrated. AS-i configuration software is available.

### OSSDs (Output Signal Switching Devices), AS-i outputs

- › Two OSSDs (Output Signal Switching Devices) with two redundant normally closed contacts each
- › Two OSSDs (Output Signal Switching Devices) with semiconductor outputs
- › 12 additional safe AS-i outputs can be controlled

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## Inputs

› 4 inputs, freely selectable

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## Logic functions

Programmable with AsiMon software. All safety components can be programmed with different functions as inputs. The inputs can be linked with AND or OR gates or via logic functions such as FlipFlop, switch-on delay, turn-off delay or pulses.

Different programs can be stored on a memory card.

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## AS-Interface monitor

The monitor controls two AS-i circuits with up to 62 safe slaves and up to 16 outputs.

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## Display and buttons

The display is used to operate the gateway functionality as well as the monitor at the same time. The diagnostics and maintenance functions are considerably expanded compared to the SFM monitors. They can also be launched on the display without a PC monitor.

Incorporated security functions allow the programmed functionality to be protected and monitored.

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## Power supply

Type N permits connection of several GMOx devices to the same power supply unit.

**Important:** One connection kit must be ordered for each safety monitor. See Accessories.

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## Approvals



## Mechanical values and environment

Housing material	Stainless steel
Weight	
	Net 0,8 kg
Ambient temperature	0 ... 55 °C
Degree of protection	IP20
permissible shock and vibration load	According to EN 61 131-2
Mounting method	Mounting rail 35mm according to DIN EN 60715TH35
Number of OSSDs	16 (4 fed out)

Number of masters	2
	<b>Relay outputs 1.13, 2.13 semiconductor outputs 1.14, 2.14, 3.14, 4.14</b>
Number of outputs	4
	<b>EDM1/Start1: 1.Y1; EDM2/Start2: 2.Y1; EDM3/Start3:1.Y2; EDM4/Start4: 2.Y2</b>
Number of inputs	4

## Electrical connection ratings

ASi voltage	DC	30 V
ASi operating current		max.300 mA
LED indicator		LED power, power supply ON
		LED PROFIBUS master detected
		LED config error configuration error
		LED U AS-i voltage OK
		LED AS-i active AS-i operation normal
		LED prg enable automatic slave programming possible
		LED prj mode, configuration mode active
		LED AUX auxiliary power is present
		4 x LEDs EDM / Start state of the inputs for the external device monitoring circuits: LED off: open, LED on: closed
		4 x LEDs output circuit state of the output circuits: LED off: open, LED on: closed
Rated insulation voltage U <sub>i</sub>		500 V
Power consumption		9 W
Connection cross-section	For wire	2x (0.5...1.5) mm <sup>2</sup>
	Flexible wire with cable end sleeve	2x (0.5...1.5) mm <sup>2</sup>
		2x AWG 24 to 12
Response delay	Safety circuit off	max.40 ms
Switch-on delay		max.10 s
ASi cycle time		150 μs 150 x (number of slaves + 2)
Card slot		Yes <sup>[1]</sup>
		<b>Relay outputs 1.13, 2.13 semiconductor outputs 1.14, 2.14, 3.14, 4.14</b>
Type of output		Output switching elements, output circuits 1, 2, 3 and 4
		<b>EDM1/Start1: 1.Y1; EDM2/Start2: 2.Y1; EDM3/Start3:1.Y2; EDM4/Start4: 2.Y2</b>
Type of input		Feedback loop/start

## Interface, bus

Data interface	PROFIBUS according to EN 50 170-3
	Serial interface RS 232
Data rate	9,6 ... 12000 kbit/s
Peripheral equipment	Decentralized peripheral equipment mapping of the AS-i slaves as I/O process data in the PROFIBUS; complete diagnostics and configuration via PROFIBUS DP master

## Controls and indicators

Control/indicator	4 buttons
Display	LCD AS-i slave address indication, error messages

## Miscellaneous

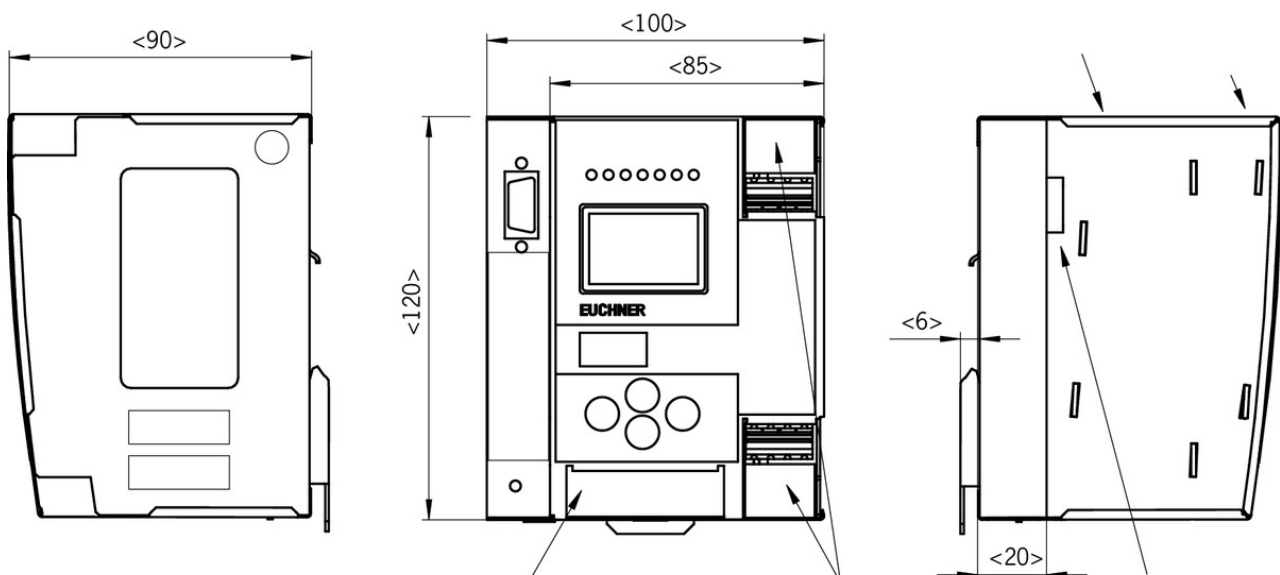
in compliance with	EN 61 000-6-2, EN 61 000-6-4, EN 62 061, IEC 61 508, EN ISO 13 849-1
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## Reliability values acc. to EN ISO 13849-1

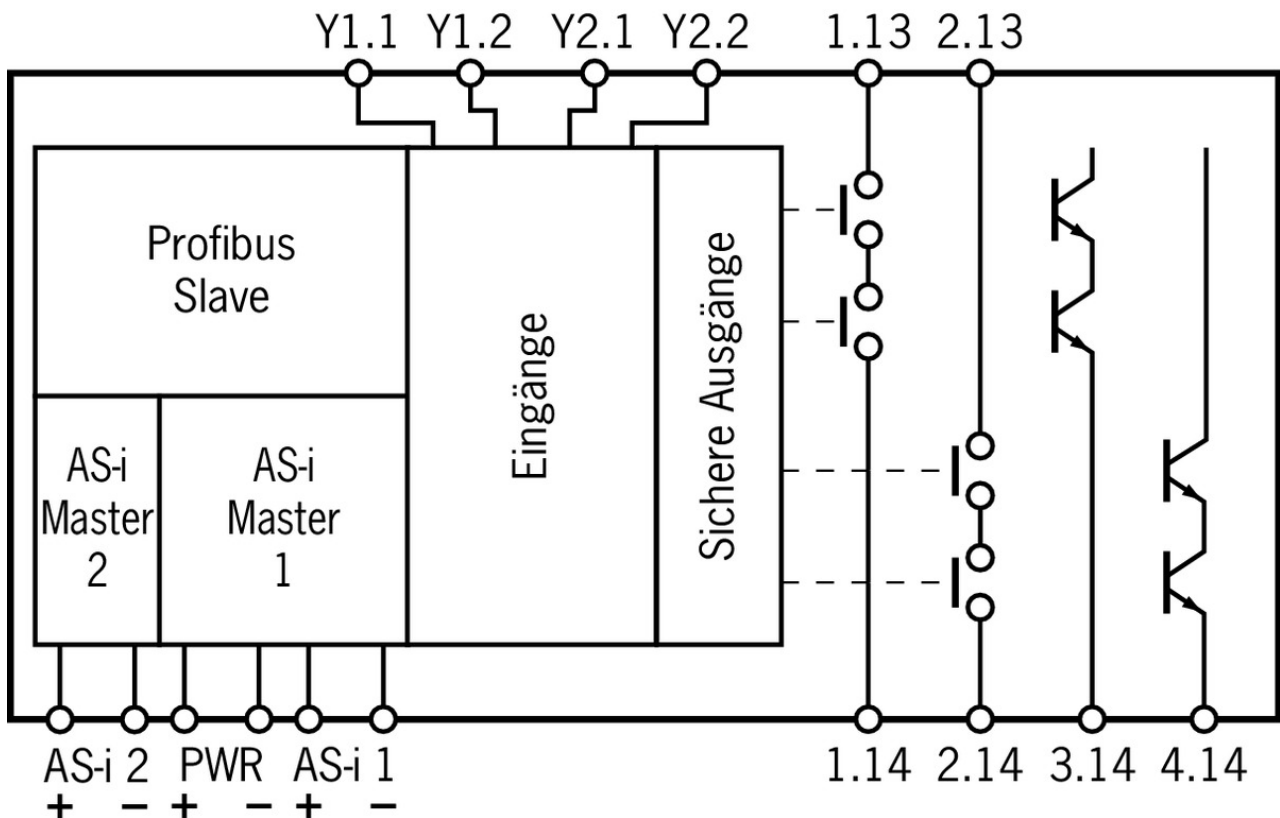
Performance Level	PL e
Category	4
PFH <sub>D</sub>	$5.36 \times 10^{-9}$
SIL CL	3
Mission time	20 y

[1] Memory card to store the configuration data

## Dimension drawing



## Block diagram



## Additional system components

### AS-Interface Safety at Work safe output SOM





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

##### Features




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

## Instructions


### Anschluss- und Betriebsanleitung AS-i 3.0 PROFIBUS-Gateway mit integriertem Sicherheitsmonitor

	Doc. no.	Version	Language	Download
Anschluss- und Betriebsanleitung AS-i 3.0 PROFIBUS-Gateway mit integriertem Sicherheitsmonitor Connecting and operating instruction AS-i 3.0 PROFIBUS gateway with integrated safety monitor	103326	07-03/16		 1.1 MB







## ▼ Description of the commands AS-i 3.0 Command Interface

	Doc. no.	Version	Language	Download
Beschreibung der Befehle AS-i 3.0 Kommandoschnittstelle Description of the commands AS-i 3.0 Command Interface	103332	02-06/09	 	 2.1 MB





## ▼ Inbetriebnahme AS-i 3.0 PROFIBUS-Gateway Doppelmaster mit integriertem Sicherheitsmonitor für 2 AS-i-Kreise

	Doc. no.	Version	Language	Download
Inbetriebnahme AS-i 3.0 PROFIBUS-Gateway Doppelmaster mit integriertem Sicherheitsmonitor für 2 AS-i-Kreise	104137	01-06/08		 0.3 MB
Mise en service Passerelle AS-i 3.0 PROFIBUS DP maître double avec moniteur de sécurité intégré pour 2 bus AS-i	104137	01-06/08		 0.3 MB
Puesta en marcha Pasarela AS-i 3.0 PROFIBUS 2 master con monitor de seguridad integrado para 2 circuitos AS-i	104137	01-06/08		 0.2 MB
Commissioning AS-i 3.0 PROFIBUS DP Gateway Double Master with integrated Safety Monitor for 2 AS-i networks	104137	01-06/08		 0.3 MB
Messa in servizio Gateway AS-i 3.0 PROFIBUS master doppio con monitor di sicurezza integrato per 2 circuito AS-i	104137	01-06/08		 0.3 MB

## ▼ Montageanweisung







	Doc. no.	Version	Language	Download
Montageanweisung Instrucciones de montaje Notice de montage Istruzioni per il montaggio Installation Instructions	103377	01-06/08	    	 1.0 MB

## ▼ Systemhandbuch AS-i 3.0 PROFIBUS-Gateway mit integriertem Sicherheitsmonitor

	Doc. no.	Version	Language	Download
Systemhandbuch AS-i 3.0 PROFIBUS-Gateway mit integriertem Sicherheitsmonitor	103329	03-03/16		 6.0 MB
User manual AS-i 3.0 PROFIBUS Gateway with integrated Safety Monitor for 2 AS-i circuits	103329	03-03/16		 5.7 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

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