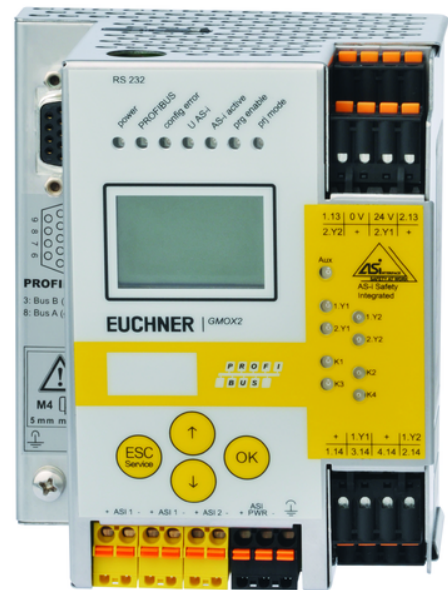


GMOX-PR-12DN-C16 (Order no. 103267)

AS-Interface Safety at Work safety monitor with integrated Gateway GMOx

- ▶ One AS-i master
- ▶ Display and pushbuttons 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 an AS-i bus according to specification 3.0. Detection of ground shunt, double addressing and EMC problems. Rapid setup 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 with two redundant normally closed contacts each
- ▶ Two OSSDs with semiconductor outputs
- ▶ 12 additional safe AS-i outputs can be controlled

Inputs

- ▶ 4 inputs, freely selectable

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, OFF time or pulses.

Different programs can be stored on a memory card.

AS-Interface monitor

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

Display and pushbuttons

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.

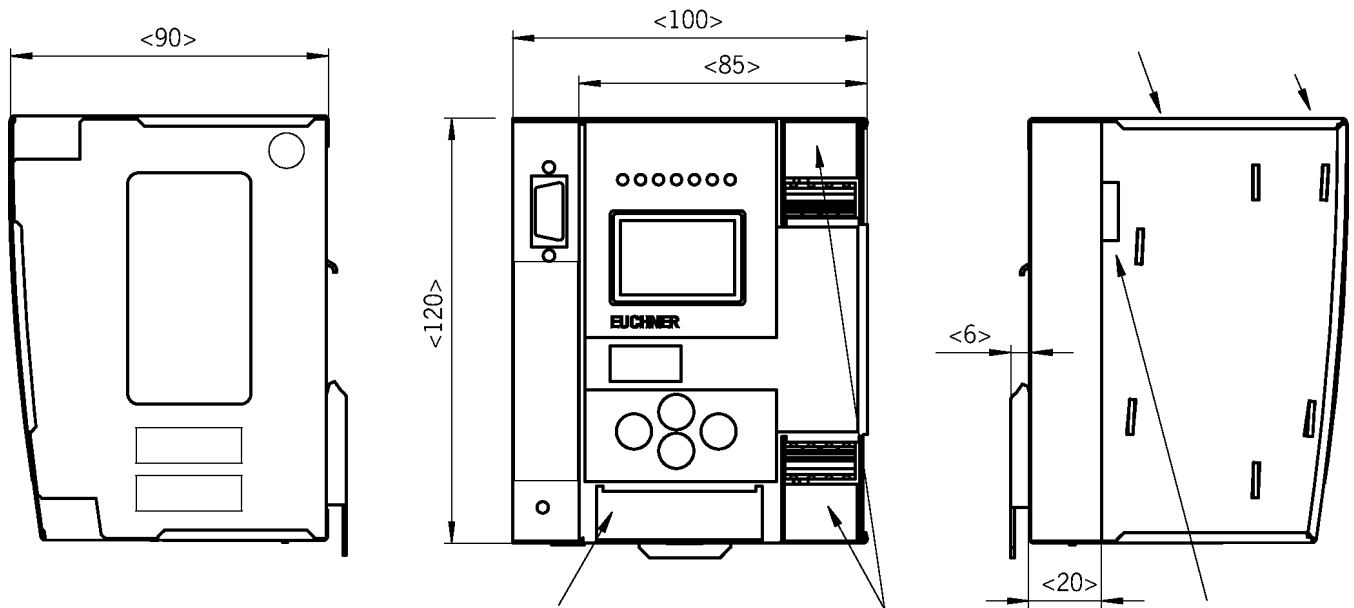
Incorporated security functions allow the programmed functionality to be protected and monitored.

Power supply

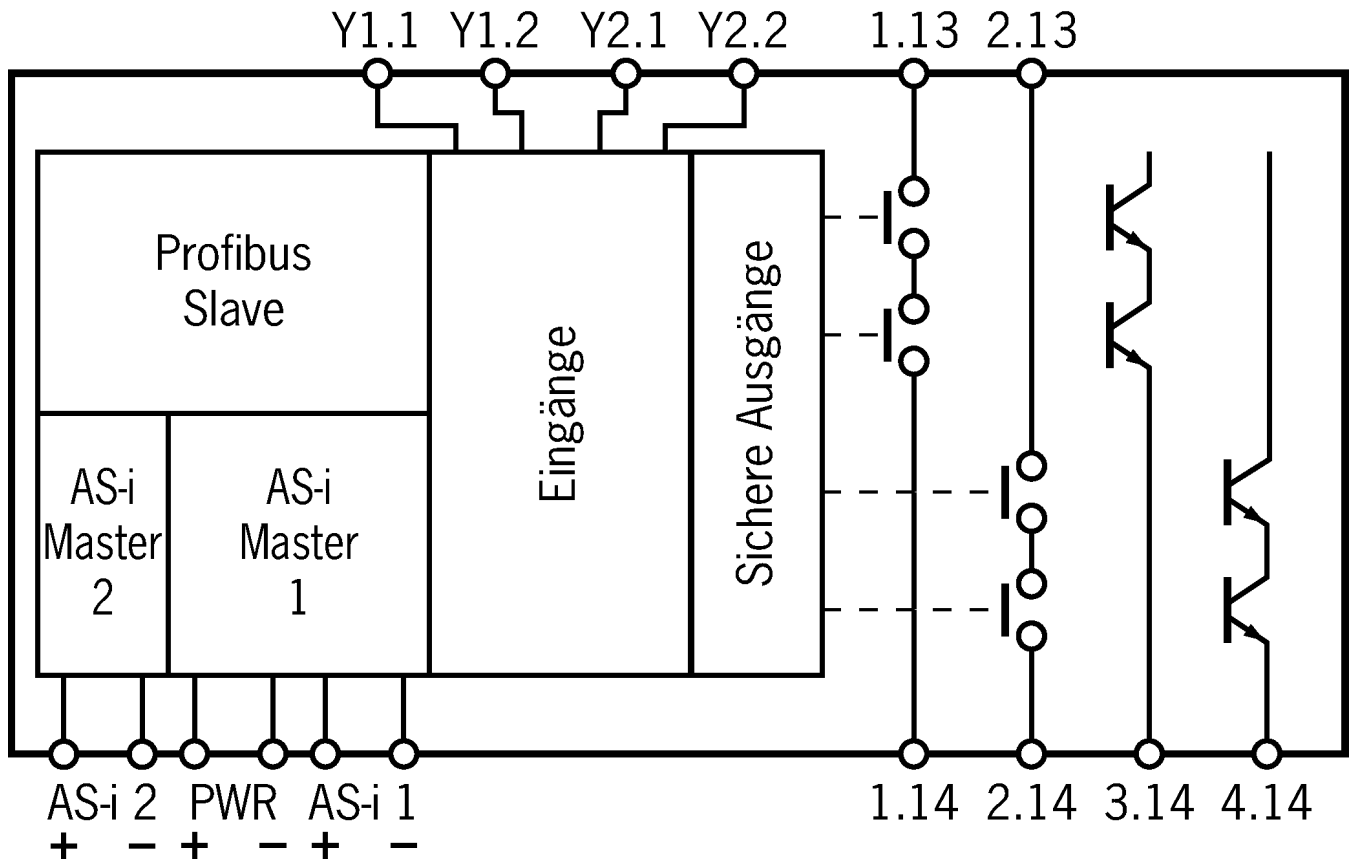
Type N permits connection of several GMOx devices to the same power supply unit.

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

Dimensional drawings



Connection examples



Technical data

Approvals



Operating and display elements

Display LCD AS-i slave address indication, error messages

LED display

- LED prg enable automatic slave programming possible
- LED AUX auxiliary power is present
- LED PROFIBUS master detected
- LED config error configuration error
- LED AS-i active AS-i operation normal
- LED U AS-i voltage OK
- LED prj mode, configuration mode active
- LED power, power supply ON
- 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 circuits, state of the output circuits: LED off: open, LED on: closed

Item	Extras	Color	Designation1	Number	LED	Version	Note slide-in label	Slide-in label	Switching element
				4		Pushbutton			

Electrical connection values

Power consumption 9 W

Connection cross section

for wire 2x (0.5...1.5) mm²

(2x AWG 24 to 12)

Flexible wire for cable end sleeve

(2x (0.5...1.5) mm²)

Response delay		Safety circuit off	max. 40 ms
ASI operating current			max. 300 mA
ASI voltage			30 V
ASI cycle time			150 μ s 150 x (number of slaves + 2)
Outputs			
Number	Type	Function	Footnote
4	Output switching elements, output circuits 1, 2, 3 and 4	Relay outputs 1.13, 2.13, semiconductor outputs 1.14, 2.14, 3.14, 4.14	
Rated insulation voltage U _i			500 V
Inputs			
Number	Type	Function	Footnote
4	Feedback loop/start	EDM1/Start1: 1.Y1; EDM2/Start2: 2.Y1; EDM3/Start3:1.Y2; EDM4/ Start4: 2.Y2	(EDM: external device monitor / feedback loop)
Switch-on delay			10 s
Card slot			yes (Memory card to store the configuration data)

Mechanical values and environment

Number of OSSDs		16 (4 fed out)
Number of masters		1
Mounting type		Mounting rail 35mm according to DIN EN 60715TH35
Degree of protection		IP20
Ambient temperature		0 ... +55 °C
Material		
	Housing	Stainless steel
permissible shock and vibration load		According to EN 61 131-2

Characteristic values according to EN ISO 13849-1 and EN IEC 62061

Mission time		20 y
Category		4
Performance Level		PL e
PFH _D		5.36 x 10 ⁻⁹

SIL CL	3
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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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Interface

Bus data protocol	PROFIBUS according to EN 50 170-3
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Data rate	9.6 ... 12000 kbit/s
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Date interface	Serial interface RS 232
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Periphery	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
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Downloads

All documentation for this material can be found on our website:

<https://www.euchner.de/en-us/a/103267/?#downloads-tab>

Ordering data

Ordernumber	103267
Item designation	GMOX-PR-12DN-C16
Gross weight	0,936kg
Customs tariff number	85371098
ECLASS	27-24-31-01 Configurable control component