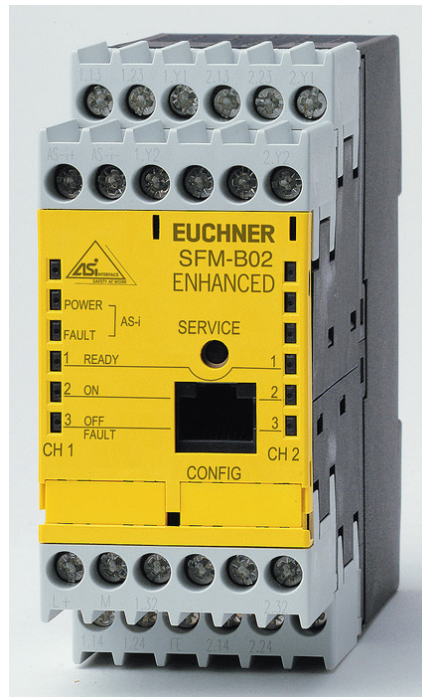


ITEM 087891 SFM-B02

Description	Technical data	Accessories	Downloads
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Features

- › Dual-channel
- › Start inputs
- › Monitoring outputs
- › Adjustable time-delay

OSSDs (Output Signal Switching Devices)

SFM-...2: Two OSSDs with 4 normally closed contacts

Auxiliary contacts

One auxiliary contact per channel.

Inputs

One start input per channel and one feedback loop per channel. Freely usable on SFM-B...

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. With the monitors SFM-B..., additional logic functions such as FlipFlop, switch-on delay, turn-off delay or pulses are available. The number of links and the memory depth are larger than on the SFM-A... devices.

Approvals



Mechanical values and environment

Housing material	Polyamide PA6.6
Weight	Net 0,45 kg
Ambient temperature	-20 ... 60 °C
Degree of protection	IP20
Mounting method	Mounting rail 35mm according to DIN EN 6715 TH35
Connection	Connection terminals
	Safety contacts 1.14, 1.24, 2.14, 2.24
Number of safety contacts	2
	Auxiliary contact terminals: L/+1.Y1, L/+2.Y1
Number of monitoring contacts	2
	Terminals for the start buttons: 1.Y2, 2.Y2
Number of inputs	2

Electrical connection ratings

ASi voltage	18,5 ... 31,6 V
ASi operating current	max.45 mA
Operating voltage DC	-15 ... 24 ... +15 V DC [1]
Rated operating current I_e	200 mA
Rated thermal current I_{th}	
Per output circuit	3 A
Fusing	
External contact fuses (safety circuit) according to IEC 60269-1	4A medium slow-blow
Residual ripple	max.15 %
Overtoltage category according to IEC EN 60664-1	3
Connection cross-section	
For wire	1x(0.5...4.0)mm ² , 2x(0.5...2.5)mm ²
Flexible wire with cable end sleeve	1x(0.5...2.5)mm ² , 2x(0.5...1.5)mm ²

		2x AWG 20 to 14
Current via feedback loop		
	at 24 V DC	Optocoupler input active high input current 10 mA
Response delay		max.40 ms
Switch-on delay		max.10 s
Max. contact load		
	DC-13	1A 24V
	AC-15	3A 230V
ASi slave type		
		EA code: 7
		ID code: F
		Safety contacts 1.14, 1.24, 2.14, 2.24
Type of output		
	2 NO contacts per safety output	Relay contacts, floating, positively driven [2]
		Auxiliary contact terminals: L+/1.Y1, L+/2.Y1
Type of output		Semiconductor output, 200 mA, short-circuit and reverse polarity protection
		Terminals for the start buttons: 1.Y2, 2.Y2
Type of input		
	at 24 V DC	Optocoupler input active high for start buttons, input current approx. 10 mA

Interface, bus

Data interface	Connection socket for configuration
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Miscellaneous

in compliance with	EN ISO 13849-1, EN 62061, IEC 61508, IEC EN 60204-1, EN 50295
Function scope	Enhanced

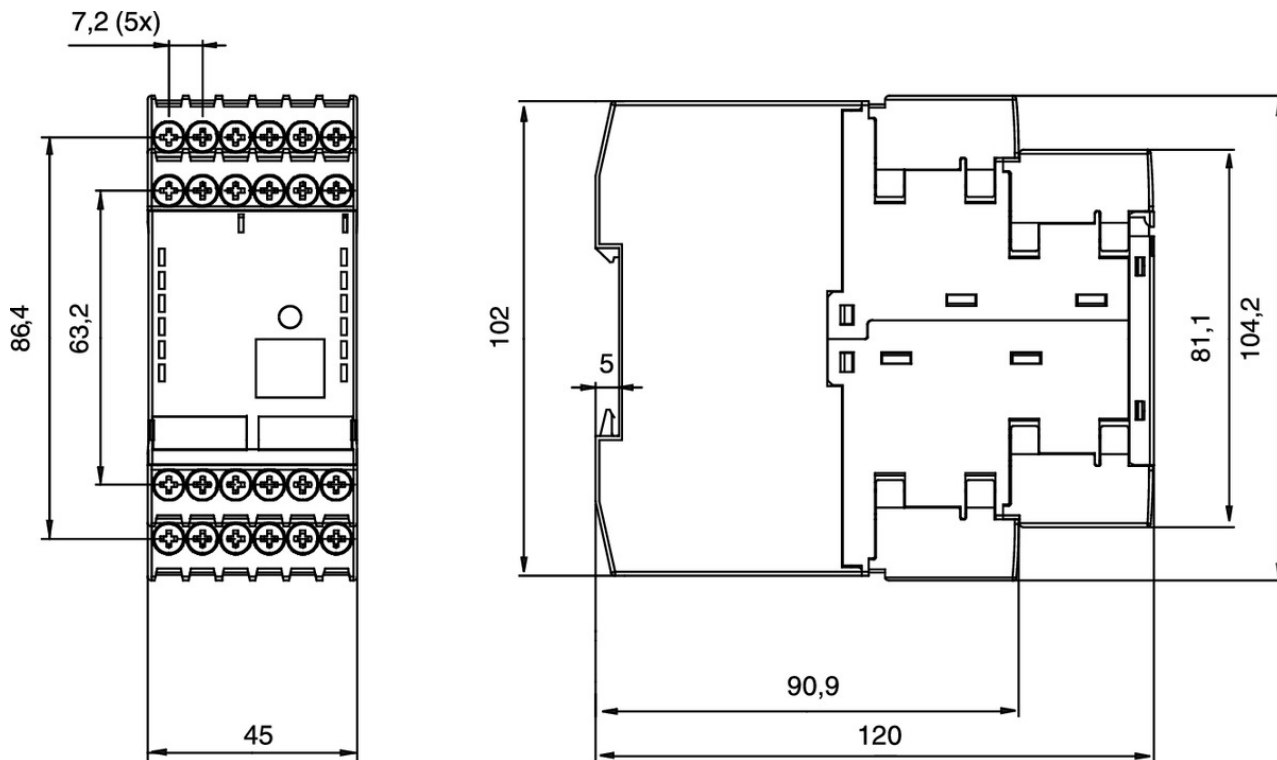
Reliability values acc. to EN ISO 13849-1

Performance Level	PL e
Category	4
PFH _D	9.1×10^{-9}
SIL CL	3
Mission time	20 y

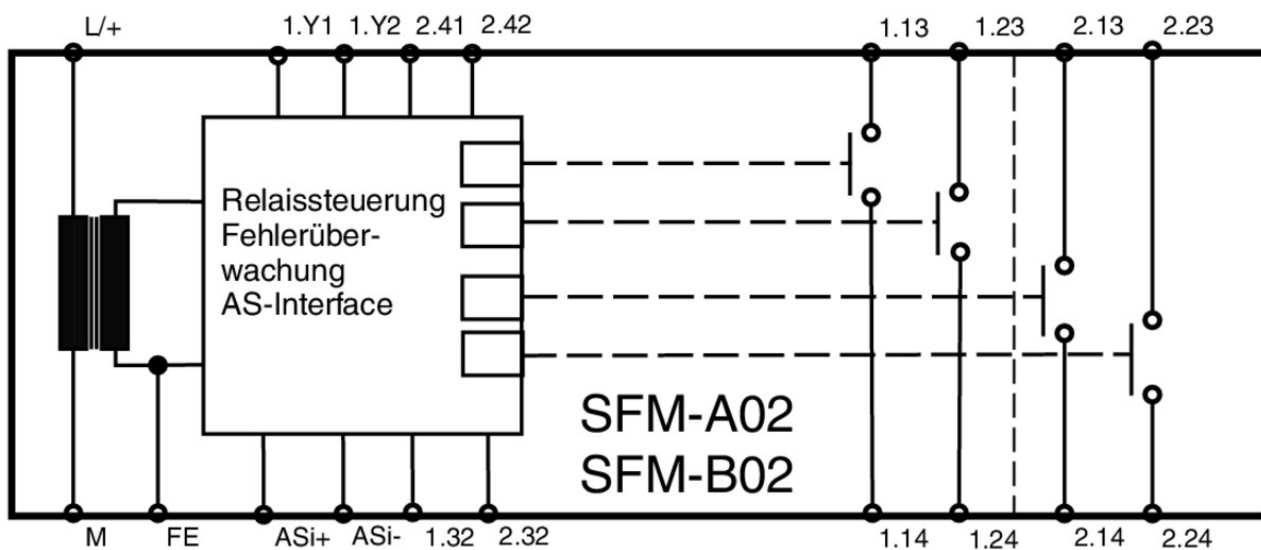
[1] A power supply unit with electrical isolation in accordance with IEC 60742, PELV, must be used to power the safety monitor and all AS-Interface components.

[2] Positively driven relays according to EN50205

Dimension drawing








Block diagram



Instructions







[Betriebsanleitung Sicherheitsmonitore SFM-...](#)

Doc. no. Version Language Download

Betriebsanleitung Sicherheitsmonitore SFM-...	2088021	08-07/17		 4.7 MB
Mode d'emploi moniteurs de sécurité SFM-...				
Istruzioni di impiego dei monitor di sicurezza SFM-...				
Operating Instructions Safety Monitors SFM-...				






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	2109859	03-05/17		 0.2 MB
Declaración UE de conformidad				
Déclaration UE de conformité				
Dichiarazione di conformità				
EU declaration of conformity			