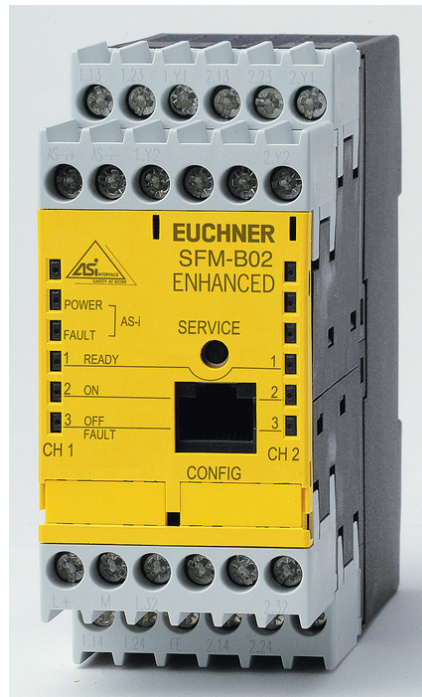


## ITEM 085639 SFM-A02

Description	Technical data	Accessories	Downloads
-------------	----------------	-------------	-----------



### 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.

### 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.

## 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
	<b>Safety contacts 1.14, 1.24, 2.14, 2.24</b>
Number of safety contacts	2
	<b>Auxiliary contact terminals: L/+1.Y1, L/+2.Y1</b>
Number of monitoring contacts	2
	<b>Terminals for the start buttons: 1.Y2, 2.Y2</b>
Number of inputs	2

## Electrical connection ratings

ASi voltage	18,5 ... 31,6 V
ASi operating current	max.45 mA
Operating voltage DC	24 -15 ... +15 V DC [1]
Rated operating current $I_e$	200 mA
Rated thermal current $I_{th}$	3 A
Fusing	
External contact fuses (safety circuit) according to IEC 60269-1	4A medium slow-blow
Residual ripple	max.15 %
Overvoltage category according to IEC EN 60664-1	3
Connection cross-section	
For wire	$1 \times (0.5 \dots 4.0) \text{mm}^2, 2 \times (0.5 \dots 2.5) \text{mm}^2$
Flexible wire with cable end sleeve	$1 \times (0.5 \dots 2.5) \text{mm}^2, 2 \times (0.5 \dots 1.5) \text{mm}^2$
	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 AC-15	1A 24V 3A 230V
ASi slave type		
		EA code: 7
		ID code: F
		<b>Safety contacts 1.14, 1.24, 2.14, 2.24</b>
Type of output		
2 NO contacts per safety output		Relay contacts, floating, positively driven [2]
		<b>Auxiliary contact terminals: L+/1.Y1, L+/2.Y1</b>
Type of output		Semiconductor output, 200 mA, short-circuit and reverse polarity protection
		<b>Terminals for the start buttons: 1.Y2, 2.Y2</b>
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
----------------	-------------------------------------

## Miscellaneous

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

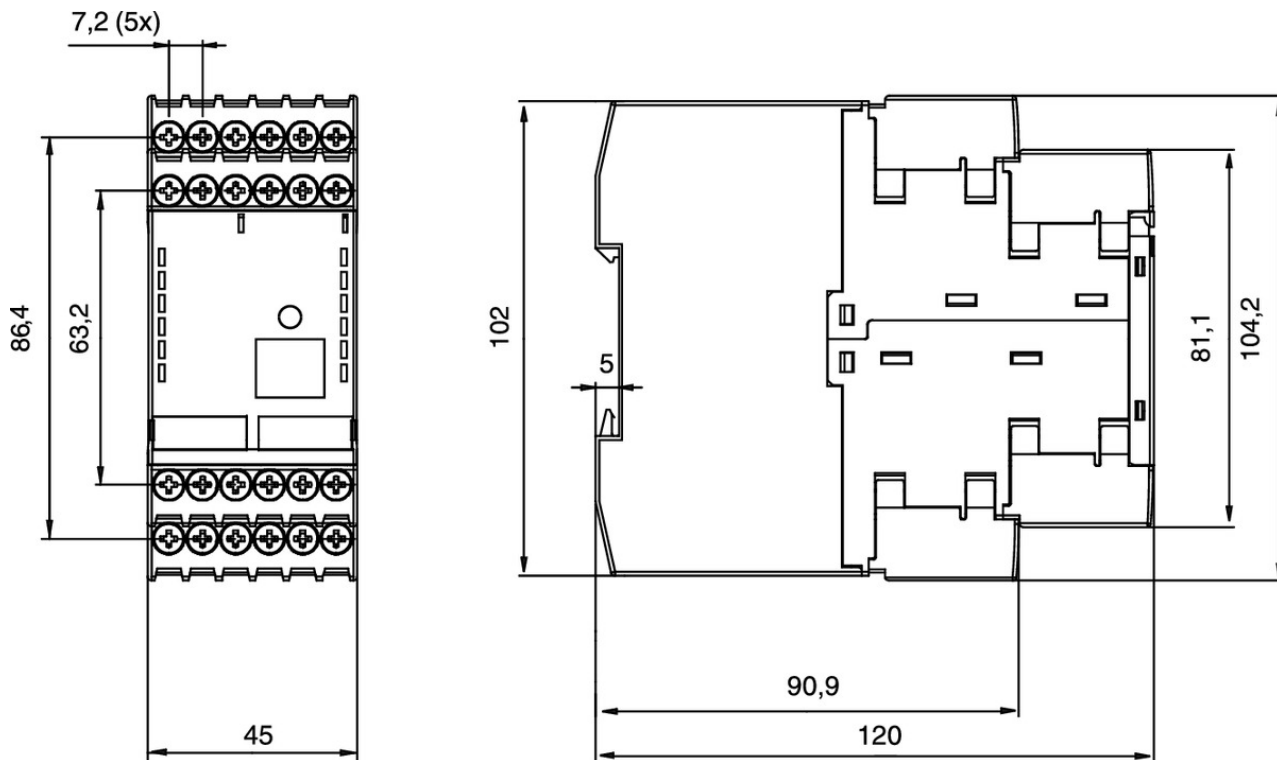
## Reliability values acc. to EN ISO 13849-1

Performance Level	PL e
Category	4
PFH <sub>D</sub>	9.1 x 10 <sup>-9</sup>
SIL CL	3
Mission time	20 y

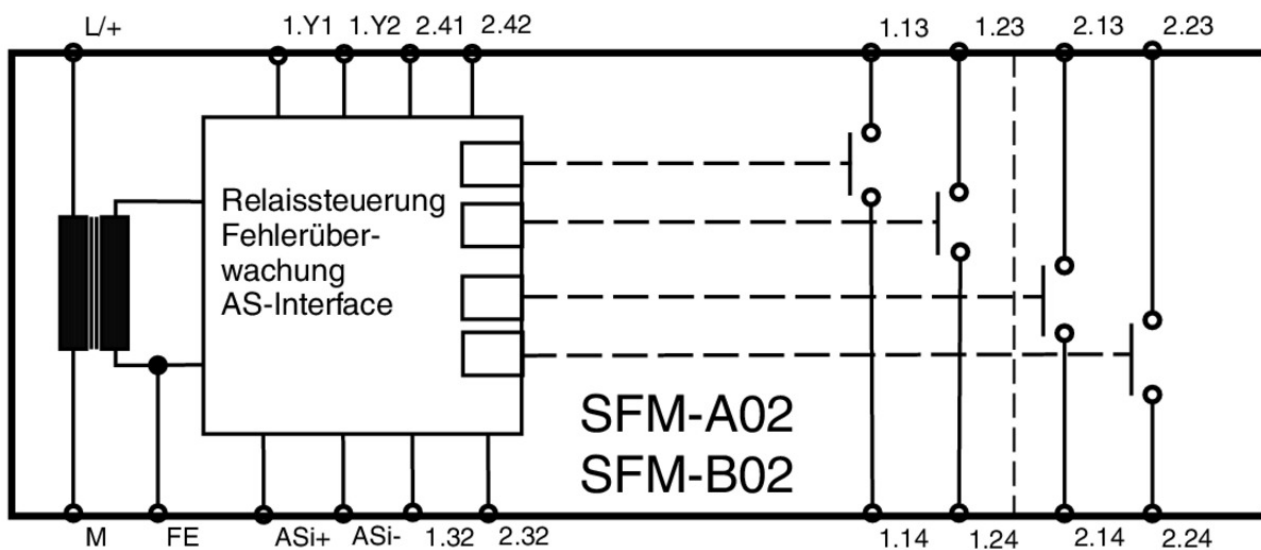
[1] A power supply unit with electrical isolation in accordance with IEC 60742, PELV, must be used to power the safety monitor and all AS-Interface components.

[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			