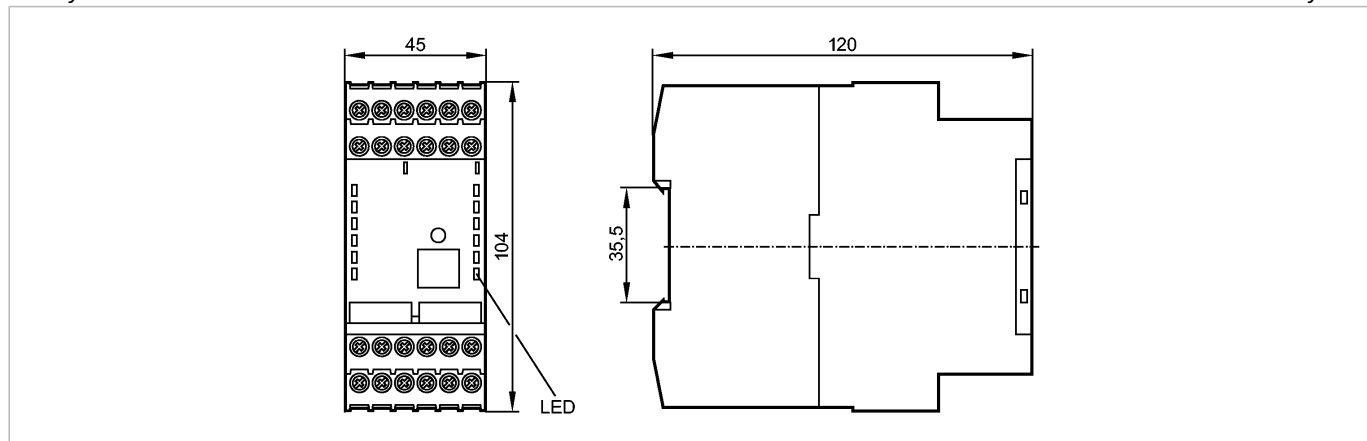




Safety monitor/2 ch. enhan.

AS-Interface bus system



Product characteristics

AS-i safety monitor

Screw terminal

Extended functionality

2-channel

Configuration and setup by configuration software ASIMON

Complies with the requirements:

EN ISO 13849-1: PL e

IEC 61508: SIL 3

Electrical data

Electrical design

Operating voltage [V]

2 safety-related outputs

24 DC  $\pm$  15%

Total current consumption from AS-i [mA]

< 45

Current consumption from 24 V DC [mA]

150

Rated operating current [mA]

200

Peak switch-on current \*\*) [mA]

600

Overvoltage category

3, for rated operating voltage 300 V AC to VDE 0110 part 1

Inputs

Inputs

start input:

optocoupler input (high active),  
input current approx. 10 mA (24 V DC)

contactor control input (EDM):  
optocoupler input (high active),  
input current approx. 10 mA (24 V DC)

Outputs

Message output Safety ON \*\*\*)

PNP transistor output/ 200 mA / reverse polarity and short-circuit protection

Safety output

2 volt-free NO contacts  
max. contact load: 1 A DC-13 (24 V DC) / 3 A AC-15 (230 V AC)  
continuous thermal current: 3 A per output circuit

Interfaces

Configuration interface

9600 baud / no parity / 1 start bit / 1 stop bit / 8 data bits

Environment

Ambient temperature [°C]

-20...60

Storage temperature [°C]

-30...70

Protection

IP 20 \*)

Tests / approvals

**AC004S - AS-i safety monitor - eclass: 27279215 / 27-27-92-15**

EMC	EN 50081-2 (1993) EN 61000-6-2 (1999) EN 60947-5-1 (2000) EN 60204-1
Safety classification	
Mission time TM [h]	175200, (20 years)
PFD	6.1 x 10E-5
PFH	9.1 x 10E-9
AS-i classification	
AS-i profile	7.F
I/O configuration [hex]	7
ID code [Hex]	F
AS-i certificate	in preparation
Mechanical data	
Housing materials	polyamide black
Weight [kg]	0.419
Electrical connection	

**Wiring**

- AS-i +: connection AS-i bus
- AS-i -: connection AS-i bus
- L+: +24V DC supply
- M: GND reference earth
- FE: functional earth
- 1.Y1: EDM 1 Input feedback circuit / output circuit 1
- 1.Y2: start / start input Output circuit 1
- 1.13: Output switching element 1 Output circuit 1
- 1.14: Output switching element 1 Output circuit 1
- 1.23: Output switching element 2 Output circuit 1
- 1.24: Output switching element 2 Output circuit 1
- 1.32: Safety ON / signal output 1 Output circuit 1
- 2.Y1: EDM 2 Input feedback circuit / output circuit 2
- 2.Y2: start / start input EDM 2 Output circuit 2
- 2.13: Output switching element 1 Output circuit 2
- 2.14: Output switching element 1 Output circuit 2
- 2.23: Output switching element 2 Output circuit 2
- 2.24: Output switching element 2 Output circuit 2
- 2.32: Safety ON / signal output 2 Output circuit 2

**Remarks**

Remarks	<p>*) Only suitable for use in electrical operating rooms or control cabinets with minimum protection rating IP54</p> <p>**) Simultaneous switch-on of all relays, the current for the message outputs is not taken into consideration</p> <p>***) The "Safety ON" message output is not relevant to safety</p>
Pack quantity [piece]	1