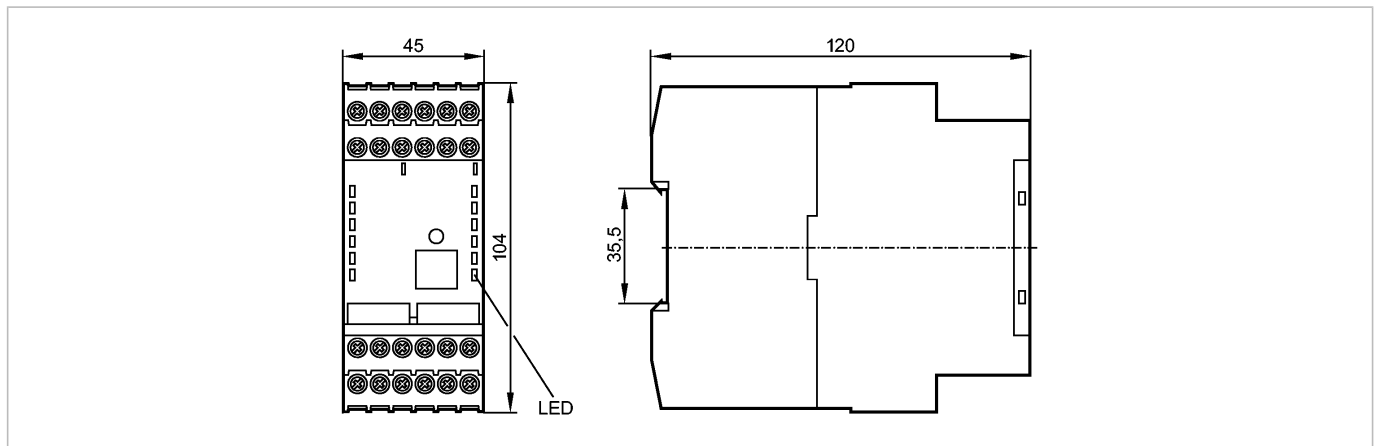


## AC001S

Safety monitor/1 channel

Bus system AS-Interface



Made in Germany



### Product characteristics

AS-i safety monitor

Screw terminal

Basic version

1-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	1 safety-related output
Operating voltage [V]	24 DC $\pm$ 15%
Total current consumption from AS-i [mA]	< 45
Current consumption from 24 V DC [mA]	150
Rated operating current [mA]	150
Peak switch-on current **) [mA]	600
Overtoltage category	3, for rated operating voltage 300 V AC to VDE 0110 part 1

### Inputs

Inputs	<p>start input: optocoupler input (high active), input current approx. 10 mA (24 V DC)</p> <p>contactor control input (EDM): optocoupler input (high active), input current approx. 10 mA (24 V DC)</p>
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### Outputs

Message output Safety ON ***)	PNP transistor output/ 200 mA / reverse polarity and short-circuit protection
Safety output	<p>2 volt-free NO contacts</p> <p>max. contact load: 1 A DC-13 (24 V DC) / 3 A AC-15 (230 V AC)</p> <p>continuous thermal current: 3 A per output circuit</p>

### Interfaces

Configuration interface	9600 baud / no parity / 1 start bit / 1 stop bit / 8 data bits
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### Environment

Ambient temperature [°C]	-20...60
Storage temperature [°C]	-30...70



**AC001S**

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Protection	IP 20 *)
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**Tests / approvals**

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]	0.34

**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 Output circuit 1

**Remarks**

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