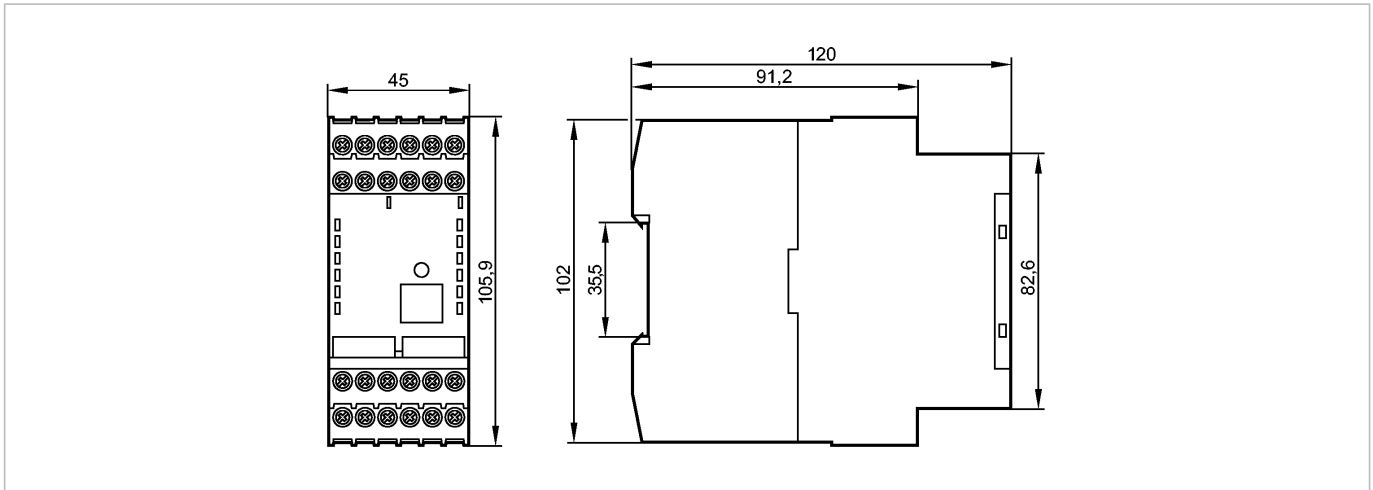


**AC032S**

Safety mon/2 ch. enhan. net

Bus system AS-Interface



Made in Germany

**Product characteristics**

AS-i safety monitor
Screw terminal
Extended functionality and integrated safe slave for triggering a safe AS-i output
2-channel
Control category 4 to EN954-1, IEC 61508 / SIL 3 and EN ISO 13849 - 1 PL e
Configuration and setup by configuration software ASIMON V3.0
Complies with the requirements: EN ISO 13849-1: category 4 PL e IEC 61508: SIL 3

**Electrical data**

Electrical design	1 safety-related output
Operating voltage [V]	24 DC ± 15%
Current consumption [mA]	< 45
Peak switch-on current **) [mA]	600
Oversvoltage category	3, for rated operating voltage 300 V AC to VDE 0110 part 1
Rated operating current [mA]	250

**Inputs**

Input current High/Low [mA]	10 (24 V DC) / -
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
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Bus system AS-Interface

Environment	
Ambient temperature [°C]	-20...60
Storage temperature [°C]	-30...70
Protection	IP 20 *)
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	7.2 x 10E-5
PFH	9.9 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]	0.416
Electrical connection	
<b>Wiring</b>	
AS-i +:	connection AS-i bus
AS-i -:	connection AS-i bus
AS-i S+ / AS-i S-:	Safe AS-i output for actuator monitoring or connection to another AS-i network
L+:	+24V DC supply
M:	GND reference earth
FE:	functional earth
1.Y1:	EDM contactor control input
1.Y2:	start / start input
1.13:	Switching output 1
1.14:	Switching output 1
1.23:	Switching output 2
1.24:	Switching output 2
1.32:	Safety ON / signal output
2.Y1:	EDM 2 Input feedback circuit / output circuit 2
2.Y2:	start 2 / start input 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	*) 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
Pack quantity [piece]	1
Other data	
AS-i data	operating voltage AS-i: 26.5...31.6 DC current consumption AS-i: < 45 mA



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