



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

Operating voltage [V]

1 safety-related output

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

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

AC001S - 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]	0.34
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	*) 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