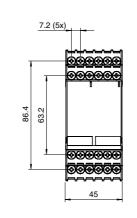
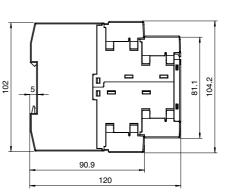


Dimensions





Electrical connection

Model number

VAS-2A-K12

Safety Monitor, 2 integrated safe outputs

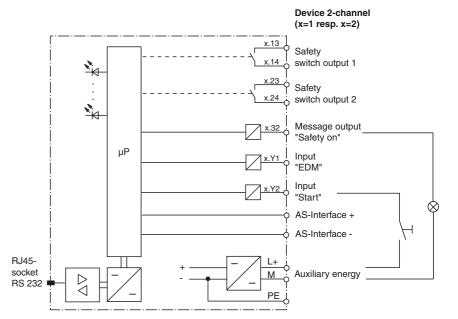
Features

- Two dependent or independent open circuits
- Fulfills technical safety requirements for Category 4 according to EN 954-1, EN 61508, SIL 3 and Performance Level e (PL_e)
- Logic configuration by means of drag & drop with diagrammatical display on the PC
- Extended logic functions

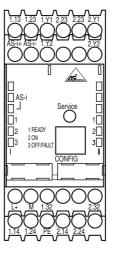
Function

When used in accordance with requirements, the AS-Interface safety monitor makes it possible to operate sensor-controlled personal protection equipment and other safety components up to and including Category 4 in accordance with EN 954-1. If additional sensors of lower categories are connected, the maximum category that can be achieved for the safety path in question is determined by these sensors. For example, laser scanners can be classified to a maximum of Type 3 in accordance with EN 61496-3. If laser scanners are included in the AS-Interface safety circuit, the maximum safety category that can be achieved for the path in question is Category 3. Any safety light curtain of Type 4 connected to the same safety monitor remains unaffected by this. Category 4 is still possible for the safety light curtain. The safety monitor is also responsible for the

compulsory EMERGENCY OFF function of all non-manually controlled machines (Stop Category 0 or 1), dynamic monitoring of the restart function and the protection control function.



Indicating / Operating means



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VAS-2A-K12

AS-Interface Safety Monitor

Technical data

General specifications		
AS-Interface specification	V2	
Switch-on delay		0 s
Response delay		0 ms
UL File Number		98304
Functional safety related parame		0
Safety Integrity Level (SIL)	SII	
Performance level (PL)		
MTTF _d		9 a
B _{10d} Indicators/operating means	20	+5
LED green	CO	: contacts of the safety output (OSSD) open nstantly lit: contacts of the safety output (OSSD) closed shing: delay time running for Stop Category 1
LED yellow	off co	nstantly lit: startup/restart lock active
LED red	Of	shing: external test required f: contacts of the safety output (OSSD) closed nstantly lit: contacts of the safety output (OSSD) open
LED POWER	fla	m: no power supply
	gre lab	en, continuous illuminated: AS-Interface power supply avai- le
LED AS-i		m: normal operation I, continuous illuminated: communication error
Electrical specifications		
Rated operating voltage	Re 26	V DC \pm 15 % sidual ripple \leq 15 % .5 31.6 V from AS-Interface
Rated operating current	·e	200 mA 5 mA from AS-Interface
Surge protection		ervoltage category III rated operating voltage 300 V DC acc. to VDE 0110 Part 1
Interface		
Interface type		232, serial
Transfer rate	96	00 baud, no parity, 1 start bit, 1 stop bit, 8 data bits
Input Number/Type		pto-coupling inputs (high-active) "Start" and "protection cont- (EDM)", input currents about 10 mA at 24 V DC
Output		
Safety output	ma 1 A	2 potential-free NO contacts, ix. contact loading: A DC-13 at 24 V DC, A AC-15 at 230 V AC
Output type	Sig	gnal output: IP transistor output, 200 mA, short-circuit and reverse-polarity-
Directive conformity Electromagnetic compatibility		
Directive 2014/30/EU	EN	l 62026-2:2013 EN 61000-6-2:2006, EN 61000-6-4:2007
Low voltage		
Directive 2006/95/EC	EN	l 60947-5-1:2005
Machinery Directive		
Directive 2006/42/EC	EN	1954-1:1996, EN 61496:2005, EN 60204-1:2006
Standard conformity		
Degree of protection		l 60529:2000
Electrical safety AS-Interface		l 50178:1998 l 62026-2:2013
Functional safety	ISC	D 13849-1:2018 (up to category 4/PL e), C 61508:2000/IEC 62061:2005 (up to SIL3)
Standards		PA 79:2002
Ambient conditions		
Ambient temperature	-20	0 60 °C (-4 140 °F)
Storage temperature) 70 °C (-22 158 °F)
Mechanical specifications		
Degree of protection	su	20 (only for use in electrical operating rooms / switch cabinet table with minimum protection type IP54)
Connection	SC	rew terminals
Material	_	
Housing		lyamide PA 66 , black
	45	lyamide PA 66 , black 0 g N rail mounting

Safety Monitor to a PC VAZ-SIMON-RJ45 Interface cable for connecting two K12-Safety Monitors USB-0,8M-PVC ABG-SUBD9

Interface cable for connecting the K12

Interface converter USB/RS 232

VAZ-SW-SIMON+

Accessories VAZ-SIMON-R2

Software for configuration of K30 Master Monitors/K31 and KE4 Safety Monitors

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