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AS-Interface Safety Monitor VAS-2A8L-KE4-8SE

- Compact safety controller up to SIL 3/PLe
- 4 integrated, safe inputs
- 2 integrated, safe outputs (OSSDs)
- 8 logical, safe output groups (switchable)
- Increased functionality through integrated expansion port
- Parameterizable muting, timer and logic functions using SIMON+ software

Safety Monitor, 8 decentralized output circuits







Function

The AS-Interface safety monitor compact VAS-2A8L-KE4-8SE- is a control cabinet module with up to 8/4 local safe inputs and up to 8

The safe inputs can optionally be configured as standard inputs and signalling outputs. Two of the safe inputs are also suitable as inputs for OSSDs, the others only for potentialfree contacts. Each safe input can also be configured as two standard inputs. 8 independent AS-Interface release circuits support multiple safe AS-Interface outputs on a single address. In addition, the test pulse outputs can be switched as diagnostic outputs (not control- safe). The safe circuit for the connected consumers is created using two safety relays.

The housing, which is only 22.5 mm wide, requires little space in the switch cabinet. The module is mounted by clicking it onto the 35 mm mouting

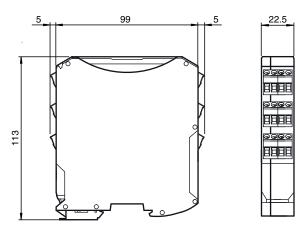
rail, compliant with EN 50022

The AS-interface and external power supply are each connected by means of a 2-station terminal block. Connection of the inputs and outputs is by means of multiple 4-station terminal blocks. This permits the simple removal of the supply during commissioning or servicing. The supply to the connected slaves is fed either internally via the module from the AS-interface or via an external supply. The current status of the inputs and outputs is indicated via yellow LEDs. Communication faults are indicated via red LEDs. The display of the operating voltage and the address 0 is provided by a green LED.

A Micro-USB interface is used for configuration with the AS-i-Control Tools via ASIMON. The configuration can be transferred to a replacement

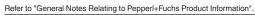
device using a chip card.

Dimensions



Technical Data

Canaval anasifications				
General specifications				
AS-Interface specification	V3.0			
UL File Number	E223772			
Functional safety related parameters				
Safety Integrity Level (SIL)	SIL 3			

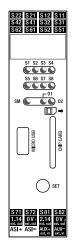


Performance level (PL)		PLe
Mission Time (T _M)		20 a
(,		5.08 E-9
PFH _d		5.08 E-9
ndicators/operating means		Otables of sofate manifest multipolared LED
LED SM		Status of safety monitor, multicolored LED green: Safety monitor OK
LED S1 S8		Status of inputs S1 S8, yellow LED yellow: Contact open
LED 01, 02		Status of outlputs, multicolored LED yellow: Output on
lectrical specifications		
Auxiliary voltage (input)	U_{EXT}	20 30 V _{DC} PELV
Insulation voltage	Ui	500 V AS-Interface/U _{AUX} :
Rated operating voltage	U_e	18,0 31.6 V from AS-Interface
Rated operating current	l _e	≤ 200 mA from AS-Interface; ≤ 4 A from AUX
nterface 1		
Interface type		Chip card slot
nterface 2		
Interface type		Micro USB Programming interface
put		
Number/Type		8 / 4 safe inputs cat. 4
		or 8 standard inputs
Supply		24 V U _{AUX}
Current loading capacity		10 mA per signal output
ourient loading capacity		1.4 A OSSD supply output
Input current		Static switching current 4 mA at 24 V, dynamic 30 mA at 24 V (T=100 μ s)
utput		
Number/Type		Output circuits 1 and 2 max. contact rating: 700 m A _{DC-13} at 24 V
Supply		24 V U _{AUX}
irective conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 62026-2:2013 EN 61000-6-2:2005/AC:2005 EN 61000-6-4:2007/A1:2011
Machinery Directive		
Directive 2006/42/EC		EN 13849-1:2008/AC:2009 EN 62061:2005
tandard conformity		
Electromagnetic compatibility		EN 50295:1999 EN 61000-6-2:2005/AC:2005 EN 61000-6-4:2007/A1:2011
Degree of protection		EN 60529:2000
Electrical safety		IEC 61508:2010 and EN 62061:2005 (up to SIL3) EN 13849-1:2008/AC:2009 EN 61326-3-1:2008
AS-Interface		EN 62026-2:2013
rogramming instructions		
Profile		S-0.B.E
IO code		0
ID code		В
ID1 code		F
mbient conditions		
Ambient temperature		0 55 °C (32 131 °F)
Ambient temperature		
Storage temperature		-25 85 °C (-13 185 °F)
•		-25 85 °C (-13 185 °F)

Technical Data

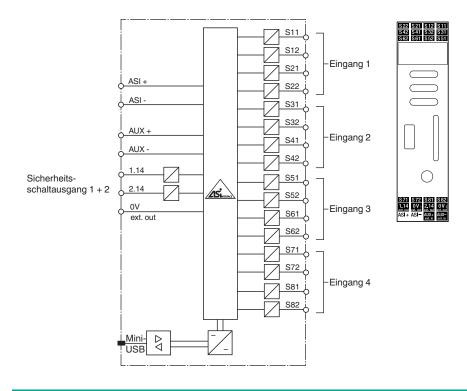
Connection	removable terminals rated connection capacity: rigid/flexible (with and without wire-end ferrules): 0.25 mm ² 2.5 mm ² for multiple-wire connection with two wires of equal cross-section: flexible with twin wire-end ferrules: 0.5 mm ² 1.5 mm ²
Material	
Housing	PA 66-FR
Mounting	DIN mounting rail

Assembly



= Service button SET CHIP CARD = Chip card

Connection



Accessories



VAZ-SW-SIMON+

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

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"



Accessories



VAZ-SIMON-USB

USB Type A to Micro-USB connector