







Model number

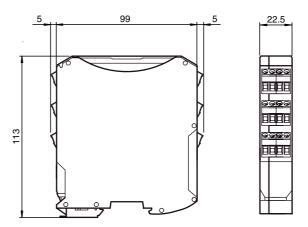
VAS/M-2A8L-KE4-8SE-C1

Safety Monitor, 8 decentralized output circuits

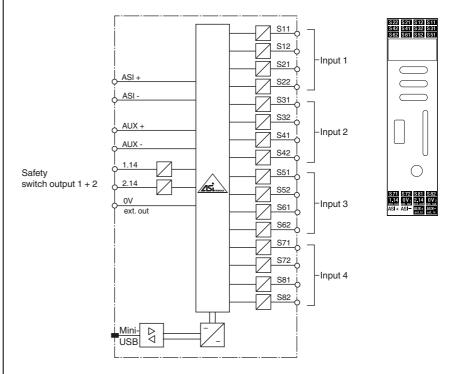
Features

- 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
- · Integrated data decoupling

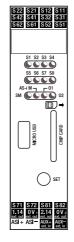
Dimensions



Electrical connection



Indicating / Operating means



SET = Service button CHIP CARD = Chip card

Technical data		
General specifications		
AS-Interface specification		V3.0
UL File Number		E223772
Functional safety related parameter	ers	
Safety Integrity Level (SIL)		SIL 3
Performance level (PL)		PL e
Mission Time (T _M)		20 a
PFH _d		5.08 E-9
Indicators/operating means LED AS-i M		Status of AS interface master, multicolored LED green: Master OK
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
Electrical specifications		Jones Supulon
<u> </u>	UEVT	20 30 V _{DC} PELV
	U _i	500 V AS-Interface/U _{ALIX} :
-	U _e	18,0 31.6 V from AS-Interface
Rated operating current	l _e	≤ 200 mA from AS-Interface; ≤ 4 A from AUX
Interface 1		
Interface type		Chip card slot
Interface 2		
Interface type		Micro USB
Input		
Number/Type		8 / 4 safe inputs cat. 4 or
		8 standard inputs and outputs
Supply		24 V U _{AUX}
Current loading capacity		10 mA per signal output 1.4 A OSSD supply output
Input current		Static switching current 4 mA at 24 V, dynamic 30 mA at 24 V (T=100 µs)
Output		(1-100 μ3)
Number/Type		Output circuits 1 and 2
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		max. contact rating: 700 m A _{DC-13} at 24 V
Supply		24 V U _{AUX}
Programming instructions		
Profile		S-0.B.E
IO code		0
ID code ID1 code		B F
Ambient conditions Ambient temperature		0 55 °C (32 131 °F)
Storage temperature		-25 85 °C (-13 185 °F)
Mechanical specifications		25 30 0 (10 100 1)
Degree of protection		IP20
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
Compliance with standards and d ves	irecti-	
Directive conformity		EN 100 to 1 0000 to 0000
Machinery Directive 2006/42/EC		EN 13849-1:2008/AC:2009 EN 62061:2005
EMC Directive 2004/108/EC		EN 50295:1999 EN 61000-6-2:2005/AC:2005 EN 61000-6-4:2007/A1:2011
Standard conformity		
Electromagnetic compatibility		EN 50295:1999 EN 61000-6-2:2005/AC:2005 EN 61000-6-4:2007/A1:2011
AS-Interface		EN 50295:1999
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

Function

The AS-Interface safety monitor compact with master function VAS/M-2A8L-KE4-8SE-C1 is a control cabinet module with up to 8/4 local safe inputs and up to 8 independent outputs and disconnectable master.

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 potential-free 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

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. For external supply via a standard power supply unit, the safety module has a decoupling function. 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.

Accessories

VBP-HH1-V3.0-KIT

AS-Interface Handheld with accessory

VBP-HH1-V3.0

AS-Interface Handheld

VAZ-PK-1,5M-V1-G

Adapter cable module/hand-held programming device

VAZ-SW-SIMON+

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

PEPPERL+FUCHS

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