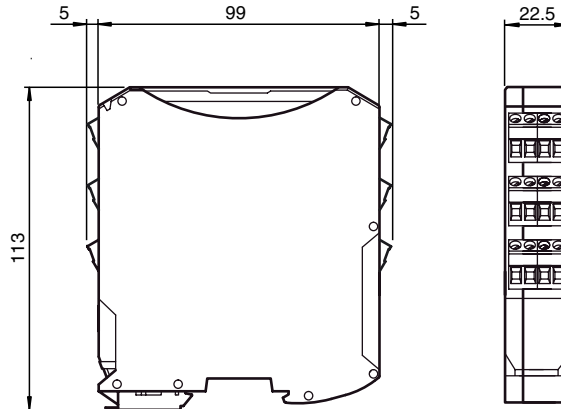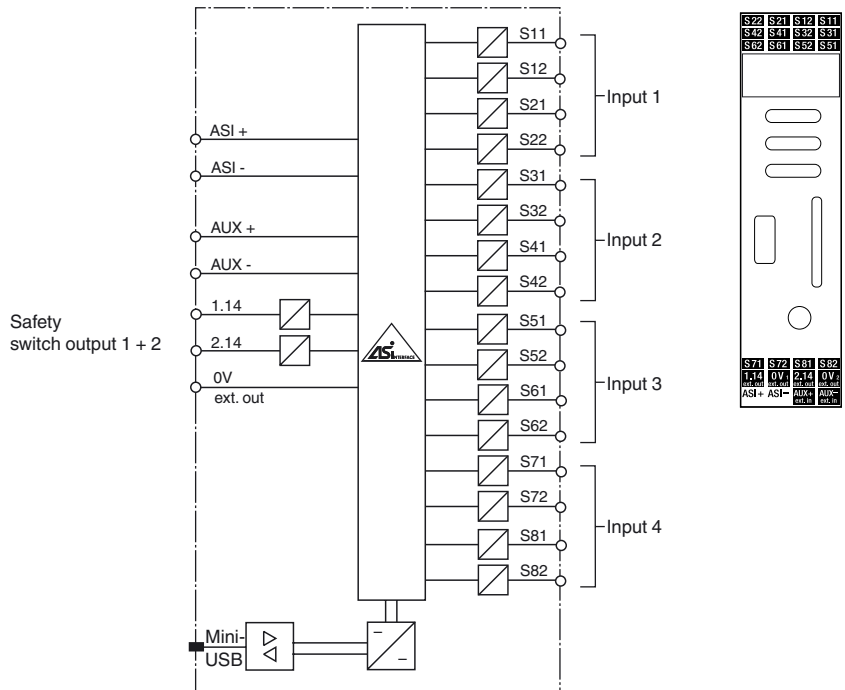## Dimensions

Electrical connection
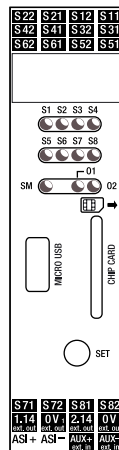

Model number

VAS-2A8L-KE4-8SE

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

Indicating / Operating means

SET = Service button
CHIP CARD = Chip card

Subject to modifications without notice

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Technical data

General specifications

AS-Interface specification	V3.0
UL File Number	E223772

Functional safety related parameters

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 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 O1, O2	Status of outlputs, multicolored LED yellow: Output on

Electrical specifications

Auxiliary voltage (input)	U_{EXT}	20 ... 30 V_{DC} PELV
Insulation voltage	U_i	500 V AS-Interface/U_{AUX}:
Rated operational voltage	U_e	18,0 ... 31.6 V from AS-Interface
Rated operational current	I_e	≤ 200 mA from AS-Interface; ≤ 4 A off 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
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

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	B
ID1 code	F

Ambient conditions

Ambient temperature	0 ... 55 °C (32 ... 131 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)

Mechanical specifications

Protection degree	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 rail

Compliance with standards and directives

Standard conformity	
AS-Interface	EN 50295:1999
Protection degree	EN 60529:2000
Electrical safety	EN 954-1:1996 (up to Kategorie 4), IEC 61508:2001 and EN 62061:2005 (up to SIL3) EN ISO 13849-1:2006 to PL e

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 independent outputs.

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 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.

Accessories

VBP-HH1-V3.0-KIT
AS-Interface Handheld with accessory

VBP-HH1-V3.0
AS-Interface Handheld

VAZ-PK-1,5M-V1-G
Connection cable module/hand-held programming device