







# Model number

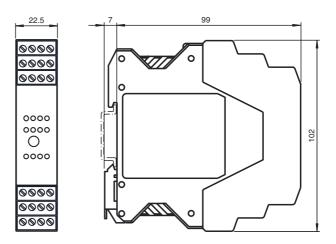
# VBA-4E4A-KE-ZEJQ/E2L

KE switch cabinet module 4 inputs and 4 outputs

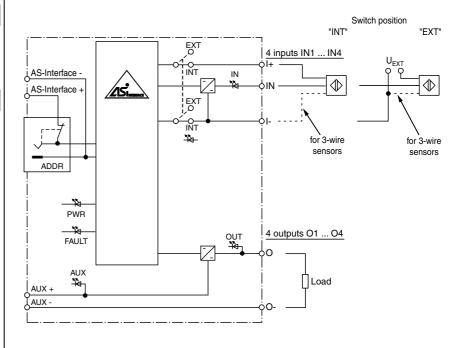
# **Features**

- Housing with removable, mechanical and color coded terminals
- Communication monitoring
- Inputs for 2- and 3-wire sensors
- Addressing jack
- Power supply of outputs from the external auxiliary voltage
- Selectable supply to the sensors: External or from the module
- Function display for bus, external auxiliary voltage, internal sensor supply, inputs, and outputs
- Red LED per channel, lights up in the event of output overload
- Switchable lead breakage detection (outputs)

# **Dimensions**



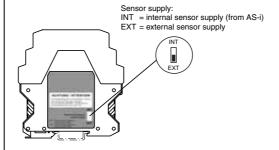
# **Electrical connection**

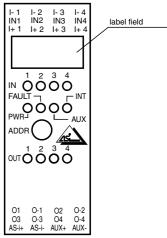


# **Indicating / Operating means**

#### ATTENTION

Do not connect the terminals I+, IN and I- with any external potential when switch set to "INT"  $^{\circ}$ 





### **Function**

The AS-Interface I/O module VBA-4E4A-KE-ZEJQ/E2L is a control cabinet module with 4 inputs and 4 electronic outputs. The housing is only 22.5 mm wide and takes up little space in the control cabinet. The module is mounted by snapping onto the 35-mm DIN rail in compliance with EN 50022.

The connection is made via plug-in terminals. Four-terminal blocks (black) are used for the inputs and outputs. The connection of the external bulk power and the AS Interface is via 2-terminal blocks (bulk power grey, AS-Interface yellow). Terminals for the inputs and outputs are mechanically coded to prevent incorrect connection.

The supply to the inputs and the connected sensors can be fed either from the internal supply of the module (from the AS-Interface) or via an external voltage source. A switch located on the side of the module changes the supply source. The choice of internal input supply is displayed via the INT LED. The IN and OUT LEDs display the current switching status of the relevant inputs and outputs. The OUT LED also indicates an overload or a lead breakage at the associated output.

#### Note:

The device is equipped with a communication monitor, which deactivates the outputs if the AS-Interface does not communicate with the module for more than 40 ms. The communication monitor can be deactivated via the parameter P0. Filters that suppress pulses with a duration of 2 ms or less at the inputs can be connected via the parameter P1.

Parameter P2 activates a lead breakage detection system for the outputs. This function detects and reports a missing load, providing the relevant output is deactivated. The associated OUT LED and the 'peripheral fault' function display the signal transmitted to the AS-Interface master. A signal indicating an overload of the internal input supply or the outputs is also transmitted to the AS-Interface master via the 'peripheral fault' function. Communication via the AS-Interface continues even if a peripheral fault is set.

### **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

not used

Р3

Ambient conditions	
Ambient temperature	-25 60 °C (-13 140 °F)
Storage temperature	-25 85 °C (-13 185 °F)
Relative humidity	90 % , noncondensing
Pollution Degree	2
Mechanical specifications	
Degree of protection	IP20
Connection	removable terminals rated connection capacity: rigid/flexible (with and without wire-end ferrules): 0.25 mm² 2.5 mm² for multiple-wire connection with two wires of equal cross-section: flexible with twin wire-end ferrules: 0.5 mm² 1.5 mm²
Material	
Housing	PA 66-FR
Mass	150 g
Mounting	DIN mounting rail
Compliance with standards and directives	-
Directive conformity	
EMC Directive 2004/108/EC	EN 61000-6-2:2005, EN 61000-6-4:2007, EN 50295:1999
Standard conformity	
Noise immunity	EN 61000-6-2:2005, EN 61326-1:2006, EN 50295:1999
Emitted interference	EN 61000-6-4:2007

# **Notes**

Input

Degree of protection

Fieldbus standard

Do not connect inputs and outputs, which are supplied via the module from AS-interface or via auxiliary power, with power supply and signal circuits with external potentials.

EN 61131-2:2004

EN 50295:1999, IEC 62026-2:2006

EN 60529:2000