





Model Number

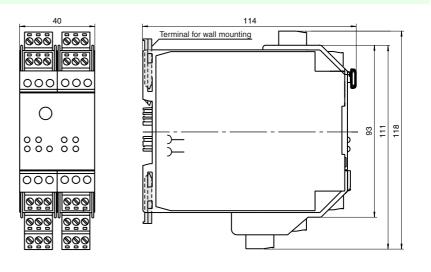
VAA-4EA-KF2-ZE0/R

Cabinet module 4 inputs (NPN) and 4 relay outputs

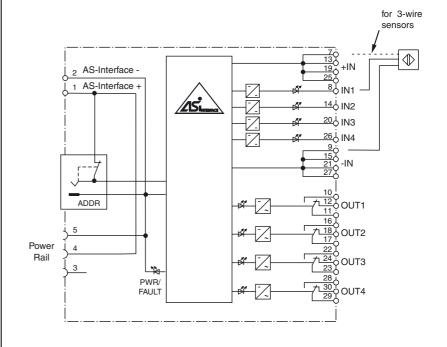
Features

- Housing with removable, coded terminals
- Function display for bus, inputs and outputs
- 4 potential-free switch-contacts
- · Addressing jack
- Communication monitoring, turn-off
- Outputs loadable up to 8 A (per module)
- Inputs for 2- and 3-wire sensors
- Power supply of inputs from the module
- AS-Interface connection via Power Rail

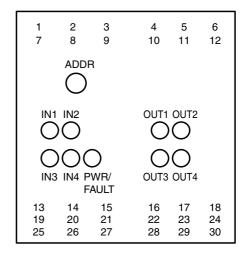
Dimensions



Electrical connection



Indicating / Operating means



Technical data			
General specifications			
Slave type	Sta	andard slave	
UL File Number	E8	7056	
Indicators/operating means			
LED PWR/FAULT		al LED green/red een: AS-Interface voltag d: communication error o een/red flashing: overloa	or address 0 ad sensor supply
LED IN		itching state (input); 4 L	•
LED OUT	SW	itching state (output); 4	LED yellow
Electrical specifications			
Rated operational voltage	U _e 26	.5 31.6 V from AS-Int	erface
Rated operational current	$I_e \leq 8$	30 mA (without sensors)	/ max. 230 mA
Input			
Number/Type	4 i	nputs for 2- or 3-wire se	nsors (NPN), DC
Supply	fro	m AS-Interface	
Voltage	21	31 V DC	
Current loading capacity		≤ 150 mA, short-circuit protected	
Switching point		·	
0 (unattenuated)	≤ 2	2 mA	
1 (attenuated)	≥ 4	1 mA	
Output			
Number/Type	4 r	elay outputs	
Electrical isolation	AS (25 Ou	AS-Interface - Outputs: Safe isolation according to EN 5017 (250 V AC) Output - Output: Safe isolation according to EN 50178 (250 AC)	
Contact loading	2 /	2 A/30 V DC per output 2 A/250 V AC per output	
Lifetime	ele 1 > 5 >	mechanical: 30×10^6 switching cycles electrical: 1×10^6 operations (30 V DC , 2 A , ohmic) 5×10^6 operations (250 V AC , 2 A , $\cos \phi = 1$) 4.5×10^6 switching cycles(250 V AC , 2 A , $\cos \phi = 0.7$)	
Programming instructions		Ŭ .	
Profile	S-	7.F	
IO code	7		
ID code	F		
Data bits (function via AS-Interfact	e)	input	output
D0	- ,	IN1	OUT1
D1		IN2	OUT2
D2		IN3	OUT3
D3		IN4	OUT4
Parameter bits (programmable via	AS-i) fu	****	3311
P0		mmunication monitoring	1
	P0 fail P0	P0 = 1 (basic setting), monitoring = ON, i.e. if communication fails, the outputs are de-energised P0 = 0, monitoring = OFF, if communication fails, the outputs maintain their condition	
P1	no	t used	
P2	no	t used	
P3	no	t used	
Ambient conditions			
Ambient temperature	-25	5 70 °C (248 343 K	()
Storage temperature		5 85 °C (248 358 K	
Mechanical specifications			
	ID'	20 according to EN 605	29
Protection degree		IP20 according to EN 60529 removable coded terminals, Power Rail	
Protection degree			
Protection degree Connection Mass	rer		

Function

The VAA-4EA-KF2-ZE0/R AS-Interface coupling module is a cabinet module with 4 inputs and 4 relay outputs. Its design, only 40 mm wide, occupies little space in a cabinet installation. The VAA-4EA-KF2-ZE0/R is installed by snapping it onto the 35 mm DIN rail, according to EN 50022, with the integrated Power Rail.

When an AS-Interface master/gateway is used in the cabinet housing, the AS-Interface signal is automatically transmitted via the Power Rail. The connection of the module to the AS-Interface cable is accomplished by simply snapping it onto the DIN rail.

The pluggable coded terminals of the inputs and outputs allow "online" maintenance, i. e. while the system is under power. The terminals are coded to prevent incorrect connections

If a master/gateway other than the one in the cabinet housing is used, the connection to the AS-Interface cable is established via the same terminals. Once the AS-Interface cable has been connected to the terminals, the AS-Interface signal is automatically transferred to the Power Rail.

Power to the module is supplied by the AS-Interface cable and the outputs are powered externally (see connection diagram). A programming jack is available for address configuration.

Note:

The outputs are de-energised by means of an integrated watchdog, whenever communication on the AS-Interface cable is interrupted for more than 80 ms. The watchdog can be disabled by the parameter bit P0.

Accessories

VBP-HH1

AS-Interface handheld

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

Connection cable module/hand-held programming device

UPR-05

Universal Power Rail

UPR-E

End cap