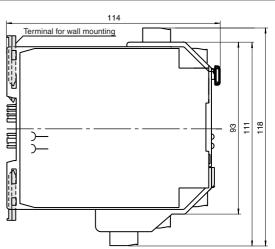


Dimensions



Electrical connection

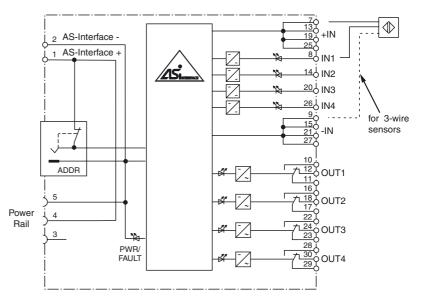
Model Number

VAA-4EA-KF2-ZE/R

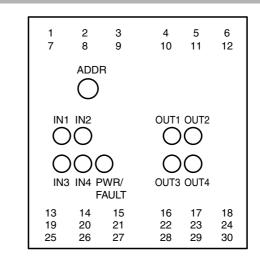
Cabinet module 4 inputs (PNP) and 4 relay outputs

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



Indicating / Operating means



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Subject to reasonable modifications due to technical advances.

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AS-Interface sensor/actuator module

Technical data			
General specifications			
Slave type	Standard slave		
AS-Interface specification	V2.0		
UL File Number	E87056		
Indicators/operating means			
LED PWR/FAULT	dual LED green/red green: AS-Interface voltage red: communication error or green/red flashing: overload	r address 0	
LED IN	switching state (input); 4 LE	switching state (input); 4 LED yellow	
LED OUT	Switching state (output); 4 L	Switching state (output); 4 LED yellow	
Electrical specifications			
Rated operational voltage U _e	26.5 31.6 V from AS-Inter	rface	
Rated operational current Ie	≤ 80 mA (without sensors) /	′ max. 230 mA	
Input			
Number/Type	4 inputs for 2- or 3-wire sen	sors (PNP), DC	
Supply	from AS-Interface		
Voltage	21 31 V DC		
Current loading capacity	≤ 150 mA, short-circuit protected		
Switching point			
0 (unattenuated)	≤ 2 mA		
1 (attenuated)	≥4 mA		
Output			
Number/Type	4 relay outputs		
Electrical isolation	AS-Interface - Outputs: Safe isolation according to EN 50178 (250 V AC) Output - Output: Safe isolation according to EN 50178 (250 V AC)		
Contact loading	2 A/30 V DC per output 2 A/250 V AC per output		
Lifetime	mechanical: 30×10^6 switching cycles electrical: 1 x 10^6 operations ($30 \vee DC$, 2 A, ohmic) 5 x 10^6 operations ($250 \vee AC$, 2 A, $\cos \phi = 1$) 4.5 x 10^6 switching cycles($250 \vee AC$, 2 A, $\cos \phi = 0.7$)		
Programming instructions			
Profile	S-7.F		
IO code	7		
ID code	F		
Data bits (function via AS-Interface)	input	output	
DO	IN1	OUT1	
D1	IN2	OUT2	
D2	IN3	OUT3	
D3	IN4	OUT4	
Parameter bits (programmable via AS-i			
P0	communication monitoring 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	not used		
P2	not used		
P3	not used		
Ambient conditions			
Ambient temperature	-25 70 °C (248 343 K)		
Storage temperature	-25 85 °C (248 358 K)		
Mechanical specifications			
Protection degree	IP20 according to EN 60529		
Connection	-	removable coded terminals, Power Rail	
Mass	170 g	170 g	
Mounting	DIN rail		

Function

The VAA-4EA-KF2-ZE/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. To install the VAA-4EA-KF2-ZE/R, simply snap 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 plug-in 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-V3.0 AS-Interface Handheld

AS-Interface Handheid

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

Connection cable module/hand-held programming device

UPR-05

Universal Power Rail

UPR-E

End cap

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