Dimensions

Electrical connection
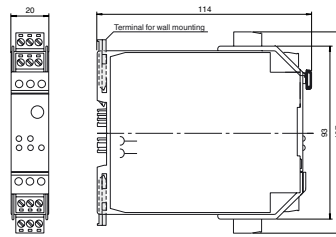

Model number

VAA-4A-KF-E2

Cabinet module
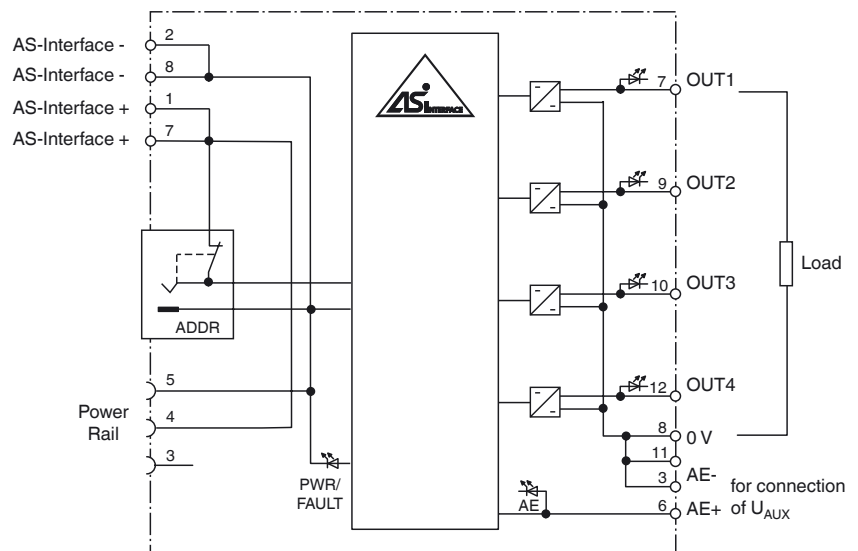4 electronic outputs

Features

- Housing with removable, coded terminals
- AS-Interface connection via Power Rail
- Communication monitoring, turn-off
- Outputs loadable up to 8 A (per module)
- Addressing jack
- Power supply of outputs from the external auxiliary voltage
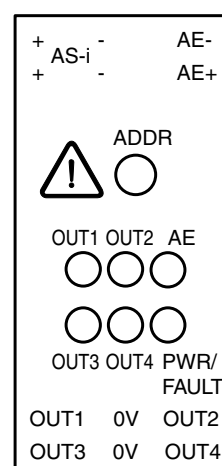- Function display for bus, external auxiliary voltage and outputs

Indicating / Operating means

Technical data

General specifications

Slave type	Standard slave
AS-Interface specification	V2.0
Required master specification	≥ V2.0
UL File Number	E87056

Indicators/operating means

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
Pepperl+Fuchs Group   USA: +1 330 486 0001   Germany: +49 621 776 4411   Singapore: +65 6779 9091
www.pepperl-fuchs.com   fa-info@us.pepperl-fuchs.com   fa-info@de.pepperl-fuchs.com   fa-info@sg.pepperl-fuchs.com

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1

LED PWR/FAULT		dual-LED green/red green: AS-Interface voltage, normal operation red: communication error or address 0	
LED OUT		Switching state (output); 4 LED yellow	
LED AE		ext. auxiliary voltage U_{AUX} ; LED green	
Electrical specifications			
Auxiliary voltage (output)	U_{AUX}	20 ... 30 V DC PELV	
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface	
Rated operating current	I_e	≤ 30 mA	
Protection class		III	
Output			
Number/Type		4 electronic outputs, PNP	
Supply		from external auxiliary voltage U_{AUX}	
Voltage		$\geq (U_{AUX} - 0.5 \text{ V})$	
Current		2 A per output , 8 A per module	
Programming instructions			
Profile		S-8.F	
IO code		8	
ID code		F	

Data bits (function via AS-Interface)	input	output
D0	-	OUT1
D1	-	OUT2
D2	-	OUT3
D3	-	OUT4

Parameter bits (programmable via AS-i)	function
P0	communication monitoring P0 = 1 (default settings), 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 (-13 ... 158 °F)
Storage temperature	-25 ... 85 °C (-13 ... 185 °F)
Mechanical specifications	
Degree of protection	IP20
Connection	removable coded terminals, Power Rail
Mass	130 g
Mounting	DIN mounting rail
Compliance with standards and directives	
Standard conformity	
Degree of protection	EN 60529

Function

The VAA-4A-KF-E2 AS-Interface coupling module is a cabinet module with 4 electronic outputs. Its design, only 20 mm wide, occupies only little space in a cabinet installation. The VAA-4E-KF-E2 is installed by snapping it onto a 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 via an integrated watchdog, whenever communication on the AS-Interface cable is interrupted for more than 80 ms. The watchdog can be disabled by the P0 parameter bit.

Accessories

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

VBP-HH1
Handheld programming device

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

UPR-05
Universal Power Rail with end caps and cover, 5 conductors, length: 2 m