Model Number

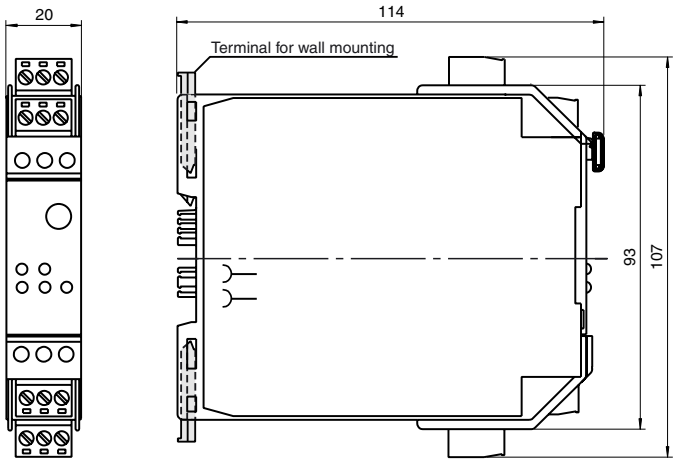
VAA-4A-KF-E2

Cabinet module
4 electronic outputs

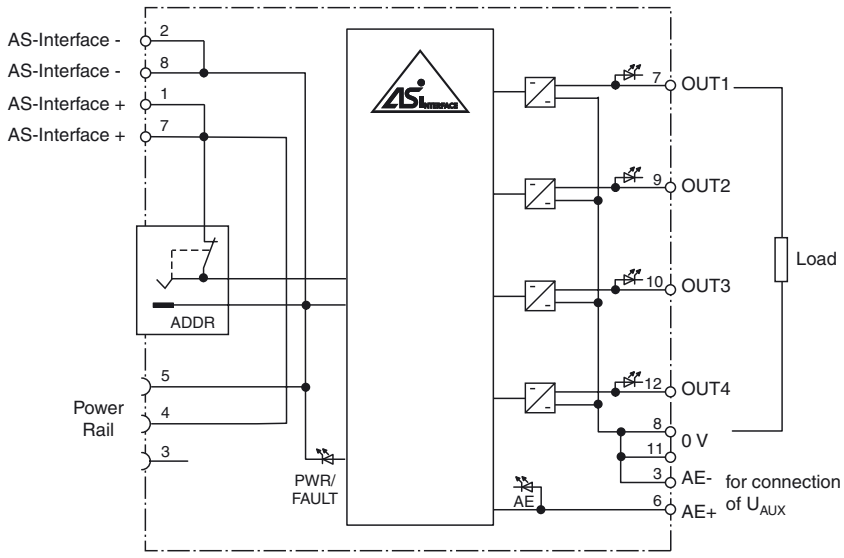
Features

- 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

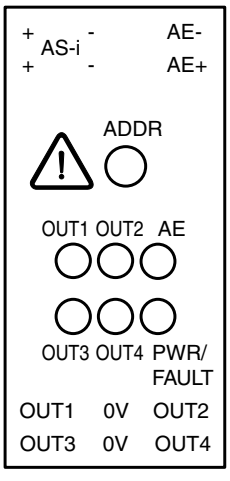
Dimensions



Electrical connection



Indicating / Operating means



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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		
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
Protection class		III
Rated operational voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operational current	I_e	≤ 30 mA
Output		
Number/Type		4 electronic outputs, PNP
Supply		from external auxiliary voltage U_{AUX}
Current		2 A per output , 8 A per module
Voltage		≥ (U_{AUX} - 0,5 V)
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 (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
Connection		removable coded terminals, Power Rail
Mass		130 g
Mounting		DIN rail
Compliance with standards and directives		
Standard conformity		
Protection degree		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
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

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