

Electrical connection

Dimensions

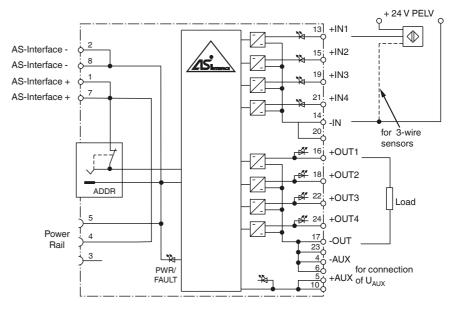
Model number

VAA-4EA-KF-ZE/E2

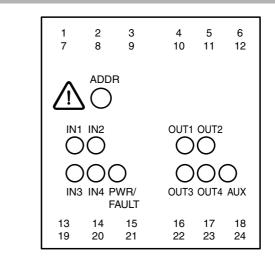
Cabinet module 4 inputs (PNP) and 4 electronic outputs

Features

- AS-Interface certificate
- 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
- External power supply of sensors
- Function display for bus, ext. auxiliary voltage, inputs and outputs



Indicating / Operating means



 Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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AS-Interface sensor/actuator module

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, norm	
LED AUX		red: communication error or addre	
LEDIN		ext. auxiliary voltage U _{AUX} ; LED green switching state (input); 4 LED yellow	
LED OUT		Switching state (input); 4 LED yellow	
		Switching state (output), 4 LED ye	FIIOW
Electrical specifications		20 30 V DC PELV	
Auxiliary voltage (output)	U _{AUX}	26.5 31.6 V from AS-Interface	
Rated operating voltage Rated operating current	Ue	\leq 30 mA	
Protection class	l _e		
Input		4 inputo for 2 or 2 wire concore (
Number/Type Supply		4 inputs for 2- or 3-wire sensors (external	Ni), DO
Supply Switching point		EXICITIA	
Switching point 0 (unattenuated)		≤2 mA	
· · · · · ·		≥2 mA ≥4 mA	
1 (attenuated)		≤ T IIIA	
Output		4 electronic outpute PNP	
Number/Type		4 electronic outputs, PNP	
		from external auxiliary voltage U _{AUX} 2 A per output , 8 A per module	
		≥ (U _{AUX} - 0.5 V)	
Programming instructions		0.7.5	
Profile		S-7.F	
IO code		7 F	
ID code	~)	•	a utaut
Data bits (function via AS-Interface D0	e)	input IN1	output OUT1
D0		IN1 IN2	OUT2
D1 D2		IN2 IN3	OUT3
D3		IN3 IN4	OUT4
Parameter bits (programmable via			0014
PO		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	
Cable			
Length	L	max. 30 m (Inputs)	
Mass		170 g	
Mounting		DIN mounting rail	
Compliance with standards and oves	directi	-	
Directive conformity			
EMC Directive 89/336/EEC		EN 61326, EN 50295	
Standard conformity			
Electromagnetic compatibility		EN 61000-6-2, EN 61326, EN 502	295
Degree of protection		EN 60529	

Function

The VAA-4EA-KF-ZE/E2 AS-Interface couping module is a cabinet module with 4 inputs and 4 electronic outputs. Its design, only 40 mm wide, occupies little space in a cabinet nstallation. The VAA-4EA-KF-ZE/E2 is nstalled by snapping it onto the 35 mm DIN Rail per 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 inputs and 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 ntegrated 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-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

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