



AS-Interface stack light module VBA-4A-70MM

- Bayonet system for simple mounting and dismounting
- 70-mm-series
- Degree of protection IP65
- Addressing jack
- Outputs short-circuit and overload proof
- No external power supply required
- Function display for bus, external auxiliary voltage and outputs
- Integrated communication monitoring function
- Modular system

AS-Interface module for stack light



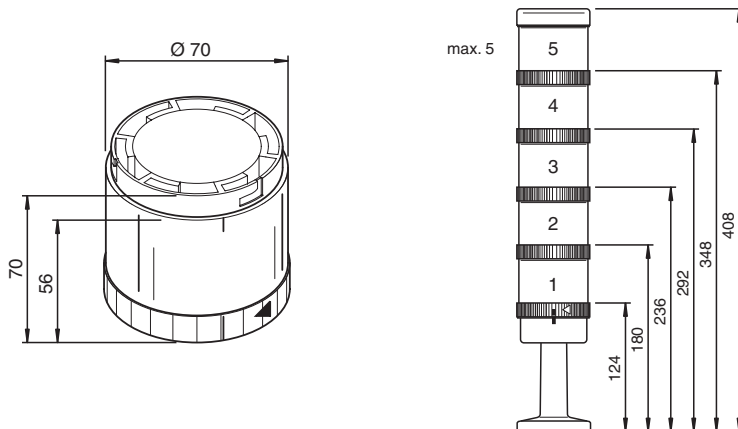
Function

The signal column module VBA-4A-70MM is an AS-Interface module with 4 virtually wearproof semiconductor relay outputs which can trigger up to 4 stages of a signal column.

The connection of the external auxiliary voltage and the AS-Interface takes place via screw terminals in the corresponding connection element which is easily fitted to the module via a bayonet system.

The supply of the connected outputs can take place either from the internal power supply of the module (from AS-Interface) or via an external power source. Switching takes place via a sliding switch inside the element. The selection of the external power supply is indicated via an LED (AUX). The outputs are protected against reversal, overload and short circuit. An LED to indicate the AS-Interface voltage is available, another indicates errors in the AS-Interface communication. For parameterization there is an addressing jack in the element protected against external interference.

Dimensions



Technical Data

General specifications

Slave type	A/B slave
AS-Interface specification	V3.0
Required master specification	≥ V3.0
UL File Number	E223176

Functional safety related parameters

MTTF _d	300 a
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Indicators/operating means

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

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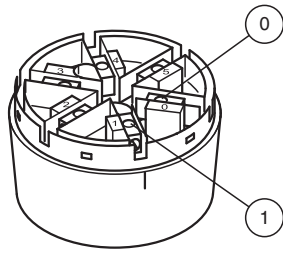
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Technical Data

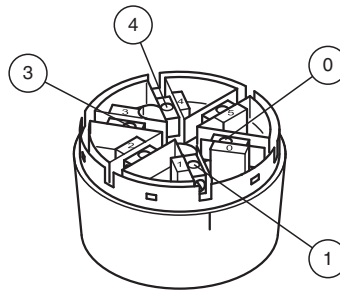
LED FAULT		communication error / address is 0; LED red
LED AS-i		AS-Interface voltage; LED green
LED AUX		ext. auxiliary voltage U_{AUX} ; LED green
Electrical specifications		
Auxiliary voltage (output)	U_{AUX}	20 ... 30 V DC PELV
Rated operating voltage	U_e	26.5 ... 31.6 V from AS-Interface
Rated operating current	I_e	≤ 210 mA
Output		
Number/Type		4 semiconductor relay outputs
Supply		from AS-Interface or from external auxiliary voltage as required U_{AUX}
Voltage		21 ... 31 V
Current		AS-interface: ≤ 200 mA for the stack light U_{AUX} : ≤ 300 mA per light element
Programming instructions		
Profile		S-7.A.7
IO code		7
ID code		A
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 = 0 monitoring = off, the outputs maintain the status if communication fails P0 = 1 monitoring = on, i.e. if communication fails, the outputs are deenergised (default settings)
P1		not used
P2		not used
P3		not used
Ambient conditions		
Ambient temperature		-20 ... 50 °C (-4 ... 122 °F)
Mechanical specifications		
Degree of protection		IP65
Connection		Bayonet system

Connection



Supply from AS-Interface

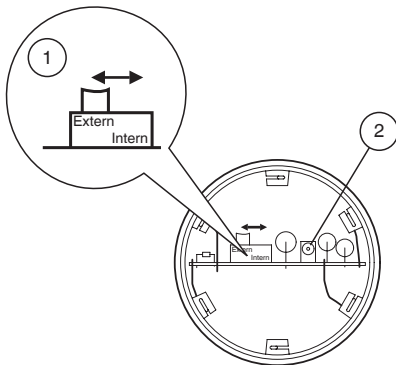
- 0 - AS-Interface
- 1 + AS-Interface



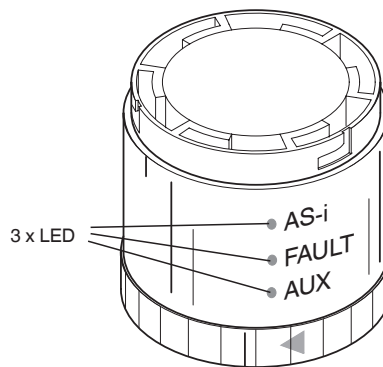
Supply from U_{Aux}

- 0 - AS-Interface
- 1 + AS-Interface
- 3 - U_{Aux}
- 4 + U_{Aux}

Assembly



- 1 Switch
- 2 Addressing socket













Accessories

	VAZ-LED-70MM-LM	Stack light LED permanent light element, lemon yellow
	VAZ-MH 100-70MM	Stack light assembly mounting, straight
	VAZ-CLAMP-70MM	Stack light terminal base with cover plate
	VAZ-MH 90°-70MM	Stack light assembly mounting, angled
	VAZ-CLAMP-70MM-90°	Stack light terminal base with cover plate

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Accessories

	VAZ-LED-70MM-YE	Stack light LED permanent light element, yellow
	VAZ-LED-70MM-RD	Stack light LED solid light element, red
	VAZ-LED-70MM-GN	Stack light LED solid light element, green
	VAZ-LED-70MM-CL	Stack light LED permanent light element, clear
	VAZ-LED-70MM-BU	Stack light LED permanent light element, blue
	VAZ-LAMP-70MM-CL	Stack light solid light element, clear
	VAZ-LAMP-70MM-YE	Stack light solid light element, yellow
	VAZ-LAMP-70MM-GN	Stack light permanent light element, green
	VAZ-LAMP-70MM-RD	Stack light solid light element, red
	VAZ-LAMP-70MM-BU	Stack light solid light element, blue