

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

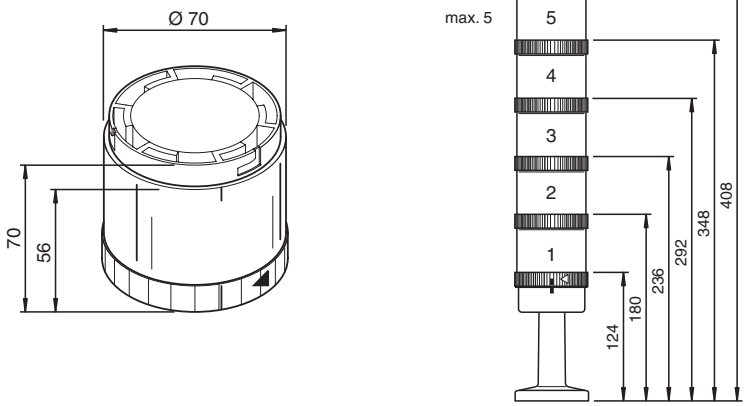
- Bayonet system for simple mounting and dismounting
- 70-mm-series
- Degree of protection IP65
- Addressing jack
- Outputs short-circuit and overload proof
- No external power supply required
- Function display for bus, external auxiliary voltage and outputs
- Integrated communication monitoring function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

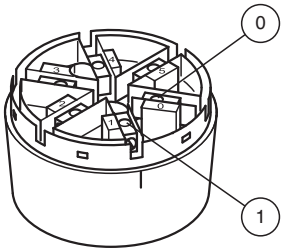
General specifications		
Node type		A/B node
AS-Interface specification		V3.0
Required gateway specification		≥ V3.0
Profile		S-7.A.7
IO code		7
ID code		A
UL File Number		E223176
Functional safety related parameters		

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Technical Data

$MTTF_d$		300 a
Indicators/operating means		
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	≤ 235 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
Ambient conditions		
Ambient temperature		-20 ... 50 °C (-4 ... 122 °F)
Mechanical specifications		
Degree of protection		IP65
Connection		Bayonet system

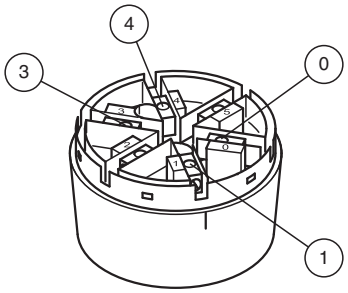
Connection



Supply from AS-Interface

0 - AS-Interface

1 + AS-Interface



Supply from U_{AUX}

0 - AS-Interface

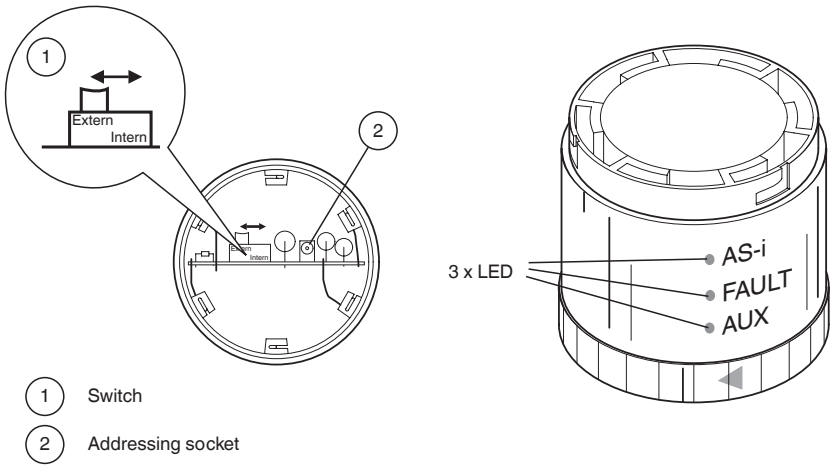
1 + AS-Interface

3 - U_{AUX}

4 + U_{AUX}

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Assembly



1 Switch

2 Addressing socket

Programming

Data bit
(function via AS-Interface)

Data bit	Input	Output
D0	-	OUT1
D1	-	OUT2
D2	-	OUT3
D3	-	OUT4

Parameter bits
(programmable via AS-Interface)

Parameter bit	Function
P0	Communication monitoring P0=0 monitoring off, the outputs maintain the status if communication fails P0=1 monitoring on, if communication fails, the outputs are deenergised, default setting
P1	not used
P2	not used
P3	not used

Accessories

	**VAZ-LED-70MM-MC**	Stack light LED permanent light element, multicolor
	**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
	**VAZ-LED-70MM-YE**	Stack light LED permanent light element, yellow
	**VAZ-LED-70MM-RD**	Stack light LED permanent light elementt, red

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Accessories

	**VAZ-LED-70MM-GN**	Stack light LED permanent 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

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