



## ASi illuminated button module

### VAA-LT3-F86-V1

- Empty housing for the installation of up to 6 built-in buttons, built-in lamps or similar with diameter 22 mm
- Connection of the illuminated pushbuttons via pluggable screw terminals
- Degree of protection IP65 possible
- Integrated communication monitoring function
- Inputs and outputs short-circuit and overload proof
- No external power supply required
- M12 plug for simple connection to AS-Interface

Luminous push-button module, 4 inputs/4outputs



### Function

The VAA-LT3-F86-V1 light sensor module creates a connection between the operating personnel and the AS-Interface master. The housing is designed in combination with suitable display and control elements in protection type IP65.

The internal AS-Interface I/O module is ideally suited to integrating customer-specific electronics, for example light sensors or LED lights. The printed circuit board is supplied entirely from the AS-Interface. The inputs and outputs are protected against short circuits and overload and the connection between the display and control elements and the AS-Interface circuit board can be plugged in with screw-on plug-in terminals. The connection to the AS-Interface is implemented by means of a V1 round plug (M12 x 1).

An overloading of the outputs is signalled to the AS-Interface master via the "Peripheral fault" function. Communication via the AS-Interface remains intact.

The luminous push-button module can be expanded by means of an additional printed circuit board module VAA-4E4A-CB1-Z/E2.

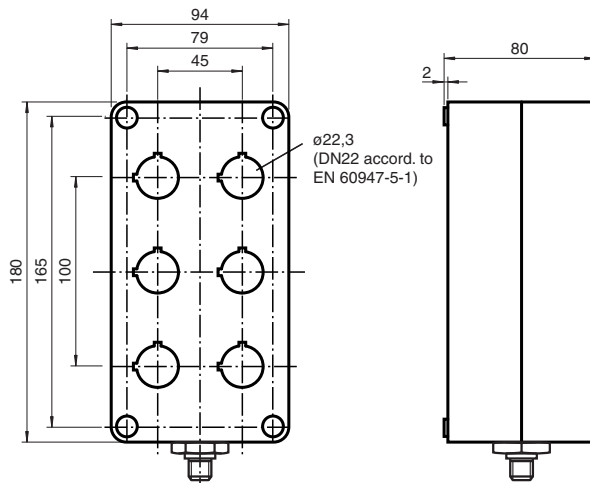
**Note:**

Communication monitoring is integrated. This switches the outputs to a currentless state if no communication is taking place over the AS-Interface cable.

### Application

LED displays should be used preferably, in order to avoid an exceeding of the max. current.

### Dimensions



### Technical Data

**General specifications**

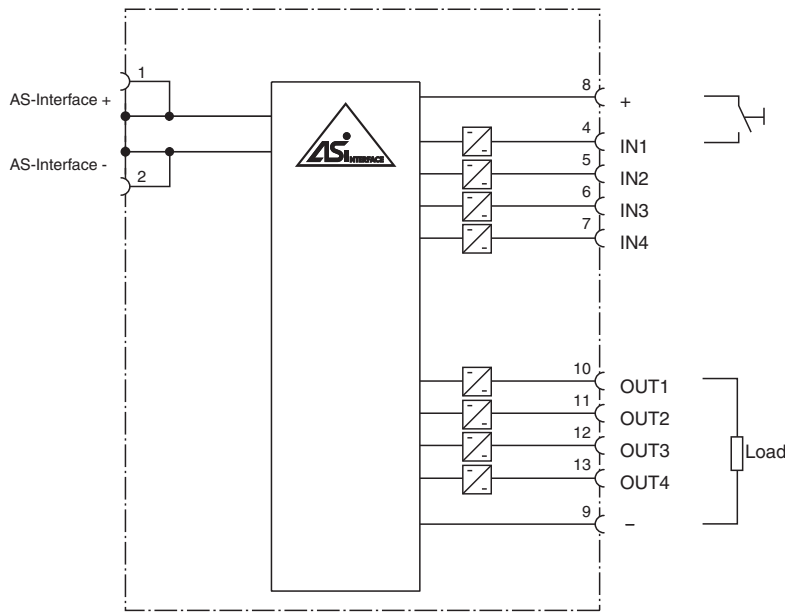
|                                |               |
|--------------------------------|---------------|
| Node type                      | Standard node |
| AS-Interface specification     | V2.0          |
| Required gateway specification | ≥ V2.0        |

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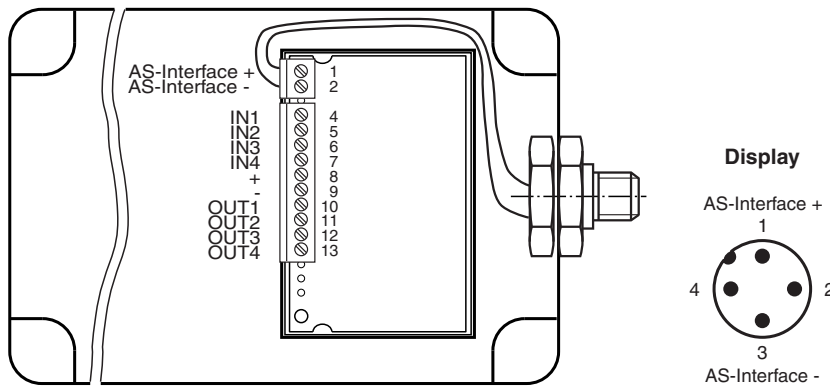
## Technical Data

| Electrical specifications              |       |   |
|--|-------|---|
| Rated operating voltage                | $U_e$ | 26.5 ... 31.6 V from AS-Interface   |
| Rated operating current                | $I_e$ | ≤ 30 mA (without sensors) / max. 180 mA                                     |
| Protection class                       |       | III   |
| Input                                  |       |   |
| Number/Type                            |       | 4 inputs for mechanical contacts  |
| Supply                                 |       | from AS-Interface   |
| Voltage                                |       | 21 ... 31 V   |
| Input current                          |       | ≤ 8 mA (limited internally)   |
| Switching point                        |       | according to EN 61131-2 Typ 1   |
| 0 (unattenuated)                       |       | ≤ 1.5 mA  |
| 1 (attenuated)                         |       | ≥ 4 mA  |
| Output                                 |       |   |
| Number/Type                            |       | 4 electronic outputs, PNP   |
| Supply                                 |       | from AS-Interface   |
| Voltage                                |       | 21 ... 31 V   |
| Current                                |       | ≤ 100 mA per output, ≤ 140 mA total   |
| Directive conformity                   |       |   |
| Electromagnetic compatibility          |       |   |
| Directive 2014/30/EU                   |       | EN 62026-2:2013   |
| Standard conformity                    |       |   |
| Degree of protection                   |       | EN 60529:2000   |
| AS-Interface                           |       | EN 62026-2:2013   |
| Programming instructions               |       |   |
| Profile                                |       | S-7.0   |
| IO code                                |       | 7   |
| ID code                                |       | 0   |
| ID1 code                               |       | F   |
| ID2 code                               |       | E   |
| Data bits (function via AS-Interface)  |       | InputOutput   |
| D0                                     |       | IN1 OUT1  |
| D1                                     |       | IN2 OUT2  |
| D2                                     |       | IN3 OUT3  |
| D3                                     |       | IN4 OUT4  |
| Parameter bits (programmable via AS-i) |       | function  |
| P0                                     |       | not used  |
| P1                                     |       | not used  |
| P2                                     |       | not used  |
| P3                                     |       | not used  |
| Ambient conditions                     |       |   |
| Ambient temperature                    |       | -25 ... 40 °C (-13 ... 104 °F)  |
| Storage temperature                    |       | -40 ... 85 °C (-40 ... 185 °F)  |
| Mechanical specifications              |       |   |
| Degree of protection                   |       | IP65 in accordance with EN 60529 (with corresponding displays and controls) |
| Connection                             |       | M12 round connector   |

**Connection**



**Assembly**



**Accessories**

|  |                                 |   |
|--|---------------------------------|---|
|  | <p><b>VAA-4E4A-CB1-Z/E2</b></p> | <p>Printed circuit board module encapsulated in housing for expansion to 8 inputs/8 outputs</p> |
|  | <p><b>VAZ-T1-FK-V1</b></p>      | <p>Splitter box AS-Interface to 1x M12 round connector</p>                                      |

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