



**Model number**

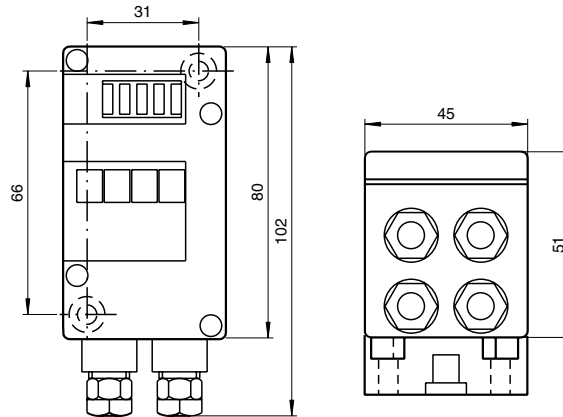
**VAR-G4F**

AS-Interface Advanced Repeater

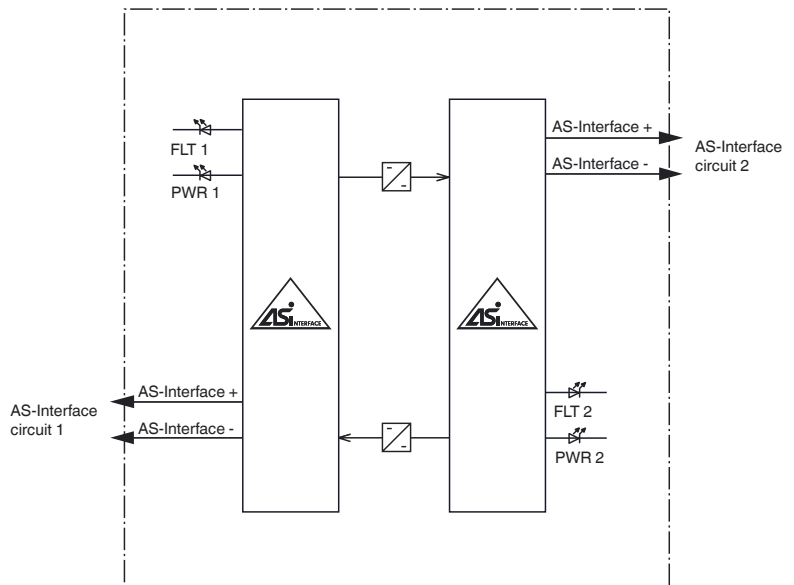
**Features**

- Minimum delay of signal
- Line lengthening by 100 m (max. 2 repeater in series)
- Galvanic isolation between AS-Interface circuits 1 and 2
- No parameterization
- Need no specific address on the AS-Interface bus
- Base for flat cable included in delivery

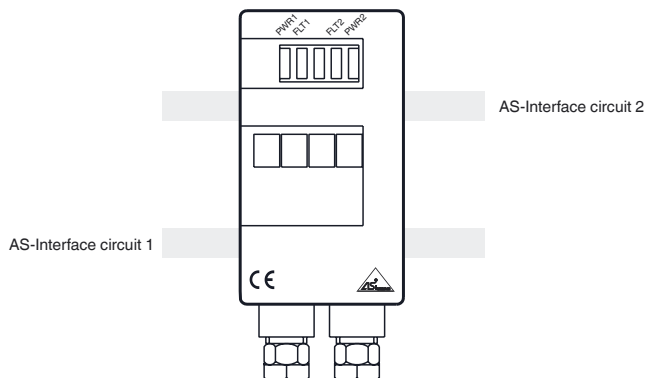
**Dimensions**



**Electrical connection**



**Indicating / Operating means**



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**Technical data****General specifications**

UL File Number	E223772
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**Functional safety related parameters**

MTTF <sub>d</sub>	160 a at 30 °C
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**Indicators/operating means**

LED FLT	error display; LED red red: communication error
LED PWR	AS-Interface voltage; LED green

**Electrical specifications**

Rated operating voltage	U <sub>e</sub>	26.5 ... 31.6 V from AS-Interface
Rated operating current	I <sub>e</sub>	60 mA (per strand element), 120 mA (total)

**Ambient conditions**

Ambient temperature	-10 ... 55 °C (14 ... 131 °F)
Storage temperature	-25 ... 75 °C (-13 ... 167 °F)

**Mechanical specifications**

Protection degree	IP67
Connection	cable piercing method flat cable yellow
Material	
Housing	PA 6 GF30
Mounting	screw mounting

**Compliance with standards and directives**

Directive conformity	
EMC Directive 2004/108/EC	EN 61000-6-2:2005, EN 50295:1999, EN 61000-6-4:2001
Standard conformity	
Protection degree	EN 60529

**Notes**

If connection of upper part with base U-G1PP: connect AS-Interface 2 + to terminal +, AS-Interface 2 - to terminal -, AS-Interface 1 + to terminal EXT+ and AS-Interface 1 - to terminal EXT-.

**Function**

The Advanced-Repeater VAR-G4F isolates two AS-Interface circuits galvanically from each other and processes the AS-Interface signals electrically, which extends the maximum line length by 100 m. Two Advanced-Repeaters can be connected in series resulting in a maximum line length of 300 m.

The Advanced-Repeater features an alignment between sender and receiver that has been optimized even further and offers a shorter delay when the signals pass through the Advanced-Repeater.

The Advanced-Repeater does not need any parameterization nor its own address on the AS-Interface; the total number of slaves (31 or 62) per line remains as it is.

A flat or round cable can be used for the connection to the AS-Interface transmission line. If the AS-Interface flat cable is to be used, the bottom part included in the scope of delivery is required. The contact to the two AS-Interface lines is made via the standardized EMS interface, i.e. by using the insulation penetration technique.

Due to the galvanic isolation, a power supply or power extender is required for each segment.

Two LEDs indicate the correct polarity of the AS-Interface lines, two LEDs signal communication faults in the respective AS-Interface circuits.

**Accessories****VAZ-G4-B1**

Blind plug M12

**Matching system components****U-G1PP**

AS-Interface module mounting base for connection to round cable (AS-Interface and external auxiliary power)