

VEGATOR 111**Single channel controller for level detection for NAMUR sensors****Application area**

The VEGATOR 111 is a controller for point level detection with the vibrating level switches VEGASWING, VEGAVID and VEGAWAVE with electronics version according to NAMUR (IEC 60947-5-6). Simple control functions can be realised with this combination. Typical applications are monitoring functions such as overflow or dry run protection. A fault signal output is available as an option.

Your benefit

- Simple and convenient function test via test key (also for SIL and WRA)
- Easy installation thanks to carrier rail mounting and detachable, coded terminals
- Comprehensive monitoring detects short-circuit and measuring line break as well as malfunctions in the sensor

Function

The VEGATOR 111 is a single channel instrument and is mainly used for point level detection, for example in conjunction with vibrating level switches. It transmits a binary signal from the field. The signal can also come from a hazardous area. Level switches according to DIN EN 60947-5-6 (NAMUR) can be connected to it. The signal circuit is monitored for line break and shortcircuit. An operating relay (output) is available as limit value signaller for control tasks. Beside the fault indication, an active fault signal via relay is available as an option.

Approvals

Worldwide approvals are available for VEGA instruments, e.g. for use in hazardous areas, on ships or in hygienic applications.

The technical data in the respective safety instructions are valid for approved instruments (e.g. with Ex approval). In some cases, these data can differ from the data listed herein.

You can find detailed information on the existing approvals with the appropriate product on our homepage.

Technical data**General data**

Series	Module unit for mounting on carrier rails 35 x 7.5 acc. to EN 50022/60715
Connection terminals	
– Wire cross-section	0.25 mm ² (AWG 23) ... 2.5 mm ² (AWG 12)

Voltage supply

Operating voltage	
– Nominal voltage AC	24 ... 230 V (-15 %, +10 %) 50/60 Hz
– Nominal voltage DC	24 ... 65 V (-15 %, +10 %)
Max. power consumption	2 W (8 VA)

Sensor input

Quantity	1 x NAMUR
Input type	Active (sensor power supply by VEGATOR 111)

Measured value transmission	Analogue 1.2/2.1 mA
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Switching threshold

– On	1.5 mA
– Off	1.7 mA

Current limitation	Through internal resistance
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Terminal voltage	8.2 V DC, ± 5 %
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Internal resistance	1 kΩ, ± 1 %
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Detection line break	≤ 0.05 mA
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Detection shortcircuit	≥ 6.8 mA
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Relay output

Quantity	1 x operating relay, 1 x fail safe relay (optional)
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Contact	Floating change-over contact (SPDT)
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Switching voltage	min. 10 mV DC, max. 253 V AC/50 V DC
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Switching current	min. 10 µA DC, max. 3 A AC, 1 A DC
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Breaking capacity	min. 50 mW, max. 500 VA, max. 54 W DC
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Switch-on/Switch-off delay

– Basic delay	100 ms
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Ambient conditions

Ambient temperature at the installation site of the instrument	-20 ... +60 °C (-4 ... +140 °F)
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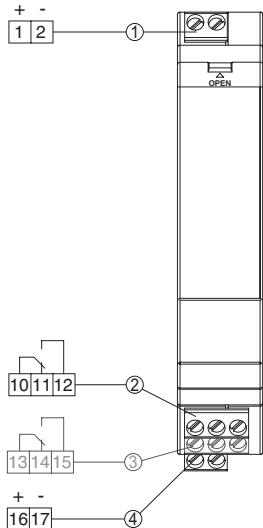
Electrical protective measures

Protection rating	IP 20
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Overvoltage category (IEC 61010-1)	
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Pollution degree	2
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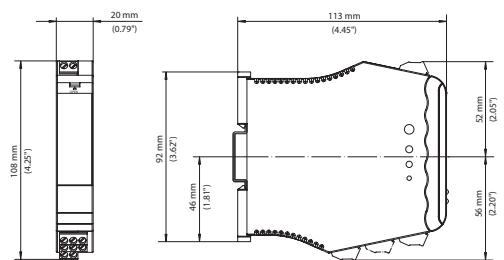
Electrical connection



- 1 Sensor circuit (1.2/2.1 mA)
- 2 Relay output
- 3 Fail safe relay (optional)
- 4 Voltage supply

You can find details on electrical connection in the instrument operating instructions on our homepage at www.vega.com/downloads.

Dimensions



Dimensions VEGATOR 111

Information

You can find further information on the VEGA product line on our homepage.

In the download section of our homepage you'll find operating instructions, product information, industry brochures and approval documents as well as device and adjustment software.

Contact

You can find your personal contact person at VEGA on our homepage under "Contact".