Specification sheet

VEGATOR 122

Double channel signal conditioning instrument for level detection for 8/16 mA sensors

Application area

The VEGATOR 122 is a signal conditioning instrument for point level detection with the vibrating level switches VEGASWING, VEGAVIB and VEGAWAVE with electronics version "Two-wire 8/16 mA". Simple control functions can be realised with this combination. Typical applications are monitoring functions such as overflow or dry run protection.

Your benefit

- Comprehensive monitoring detects shortcircuit and measuring line break as well as malfunctions in the sensor
- Simple and convenient function test via test keys for both channels (also for SIL and WHG)
- Simple mounting through carrier rail as well as detachable, coded terminals

Function

The VEGATOR 122 is a double channel instrument and is mainly used for point level detection, for example in conjunction with vibrating level switches. It transmits binary signals from the field. The signals can also come from a hazardous area. Level switches with 8/16 mA step signal can be connected to it. The signal circuit is monitored for line break and shortcircuit. An operating relay (output) per channel is available as limit value signaller for control tasks

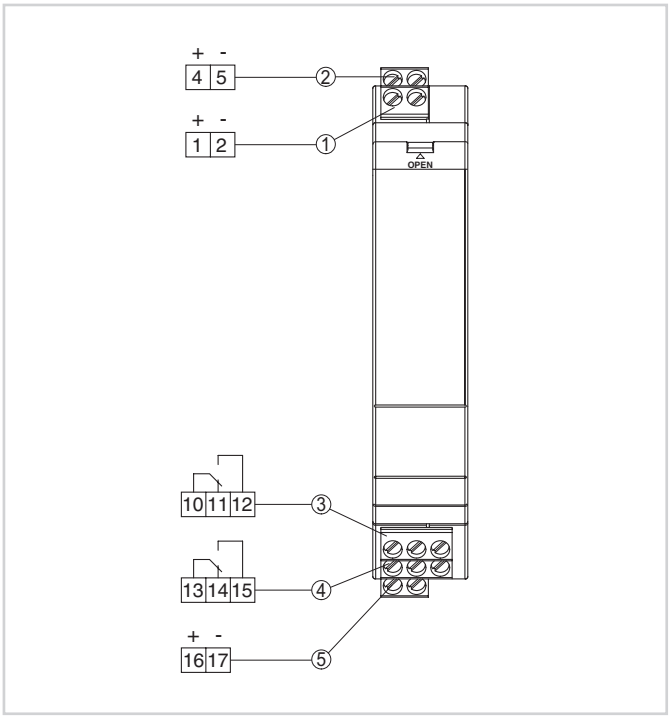
Technical data

General data	
Series	Module unit for mounting on carrier rails 35 x 7.5 acc. to EN 50022/60715
Connection terminals	
– Type of terminal	Screw terminal
– 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 DC (-15 %, +10 %)
Max. power consumption	3 W (8 VA)
Sensor input	
Quantity	2 x analogue
Input type	Active (sensor power supply by VEGATOR 122)
Measured value transmission	Analogue 8/16 mA
Switching threshold	
– On	12.1 mA
– Off	11.9 mA
– Tolerance	± 500 µA
Current limitation	23 mA (permanently short-circuit proof)
Terminal voltage	18.2 V DC, ± 5 %
Internal resistance	200 Ω, ± 1 %
Detection line break	≤ 3.6 mA
Detection shortcircuit	≥ 21 mA
Relay output	
Quantity	2 x operating relay
Contact	Floating spdt
Switching voltage	min. 10 mV DC, max. 253 V AC/50 V DC
Switching current	min. 10 µA DC, max. 3 A AC, 1 A DC
Breaking capacity	min. 50 mW, max. 500 VA, max. 54 W DC
Switch-on/Switch-off delay	
– Basic delay	150 ms, ± 10 %
– Adjustable delay	2/6/8 s, ± 20 %
Ambient conditions	
Ambient temperature at the installation site of the instrument	-20 … +60 °C (-4 … +140 °F)
Electrical protective measures	
Protection rating	IP 20
Overvoltage category (IEC 61010-1)	
– up to 2000 m (6562 ft) above sea level	II
– up to 5000 m (16404 ft) above sea level	II - Only with connected overvoltage protection
– up to 5000 m (16404 ft) above sea level	I
Degree of soiling	2

Approvals

You can find detailed information on the existing approvals in the "*configurator*" on our homepage at www.vega.com/configurator.

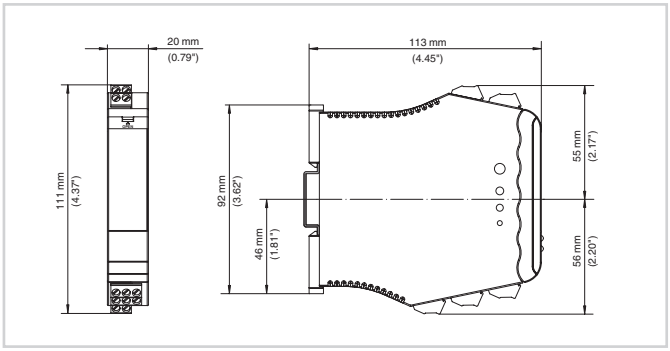
Electrical connection



1 *Sensor circuit, channel 1 (8/16 mA)*
2 *Sensor circuit, channel 2 (8/16 mA)*
3 *Relay output channel 1*
4 *Relay output channel 2*
5 *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 122

Information

You can find further information on the VEGA product line on our homepage www.vega.com.
In the download section under www.vega.com you'll find free operating instructions, product information, brochures, approval documents, instrument drawings and much, much more.

Contact

You can find the VEGA agency serving your area on our homepage www.vega.com.