Warnung device for containers and tanks



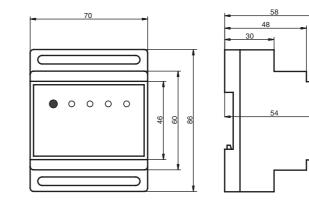
NVO5-11



Features

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- · 230 V AC supply voltage
- · Two independent, potential-free changeover contacts
- · Visual and acoustic alarm
- · Connection to central monitoring system
- · Easy installation on DIN rail



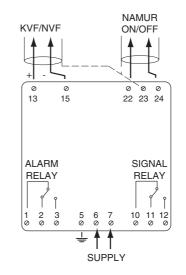
Function

The warning device is used for monitoring of containers, tanks or double-walled pipes. Over a sensor in the system the warning device can monitoring following functions:

- Monitoring of layer thickness, i. e. when a given percentage of the max. accumulation capacity for liquid has been reached.
- · Monitoring of liquid overflow, i. e. in connection with a blocked coalescence filter or when a float stop blocks the outlet and the liquid level rises.
- Monitoring of sinking liquid level, i. e. in connection with a leaky system.

The warning device has a built-in acoustic alarm and LEDs which show the actual operation mode. Furthermore there are two independent, potential-free changeover contacts for the connection of central monitoring system or external remote alarm.

Electrical connection



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Supply		
Connection	terminals 5, 6, 7	
Rated voltage	230 V AC ± 10 %, 50/60 Hz	
Fusing	max. 10 A	
Power consumption	6 VA	
Indicators/operating means		
Display elements	LED SUPPLY (power supply), one yellow LED LED SYSTEM OK (indication operating status), one green LED LED ALARM (alarm active), one yellow LED LED SENSOR FAILURE (sensor fault), one red LED	
Operating elements	button ALARM RESET: reset of the alarm relays and of the acoustic alarm	
Input		
Connection	input 1: sensors KVF/NVF terminals 13+, 15- input 2: NAMUR ON/OFF terminals 22+, 24-	
Output		
Connection	output 1: terminals 1, 2, 3; output 2: terminals 10, 11, 12	
Output	potential free changeover contact	
Contact loading	250 V AC/4 A/100 VA	
Electrical isolation		
Output/power supply	reinforced insulation acc. to EN 50178, rated insulation voltage 300 $\mathrm{V}_{\mathrm{eff}}$	
Output/output	reinforced insulation acc. to EN 50178, rated insulation voltage 300 $\mathrm{V}_{\mathrm{eff}}$	
Directive conformity		
Electromagnetic compatibility		
Directive 89/336/EC	EN 61000-6-2, EN 61000-6-3	
Conformity		
Electrical isolation	EN 50178	
Protection degree	IEC 60529	
Ambient conditions		
Ambient temperature	-15 40 °C (258 313 K)	
Mechanical specifications		
Protection degree	IP20	
Mass	325 g	
Dimensions	70 x 86 x 58 mm (2.8 x 3.4 x 2.3 in)	
Mounting	DIN rail, system M36	
Data for application in conjunction with hazardous areas		
EC-Type Examination Certificate	DEMKO 07 ATEX 142589	
Group, category, type of protection	⟨͡͡͡͡͡͡͡͡͡͡͡ː ⟨̄	
Voltage U _o	input 1: 21 V ; input 2: 12.6 V	
Current I _o	input 1: 300 mA ; input 2: 300 mA	
Power Po	input 1: 1.55 W ; input 2: 1.2 W	
External capacitance	input 1: 0.6 μF ; input 2: 0.3 μF	
External inductance	input 1: 0.5 mH ; input 2: 0.5 mH	
Directive conformity		
Directive 94/9 EC	EN 50014, EN 50020, EN 60079-14	
General information		
Supplementary information	EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.	

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Product program

Warning device	
Intrinsically safe warning device, 230 V AC	NVO5-11
Sensors	
Overflow sensor for overflow monitoring	NVF-104/34-PF
Overflow sensor for overflow monitoring	NVFRH-125
Layer thickness sensor for oil layer thickness monitoring	KVF-103-PF
Gas sensor for monitoring the state of aggregation (no longer in the delivery program)	NVF-027
Accessories	
Cable connector for 1 sensor, IP67	NVO5-SK3
Mounting set for 1 sensor	NVO5-B
Installation housing with DIN rail	NVO5-KV
For additional information see data sheets.	

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