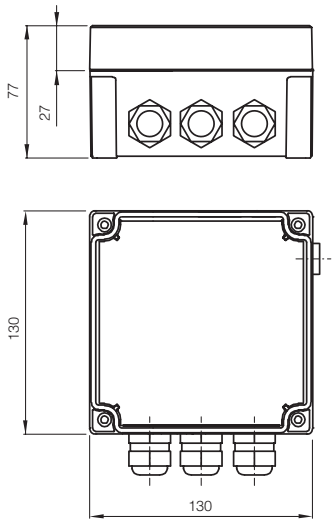
Warning device for fat separators

NVD-11

Dimensions



Function

The warning device is used for monitoring of fat separators. Over up to two sensors in the separators the warning device can monitoring following functions:

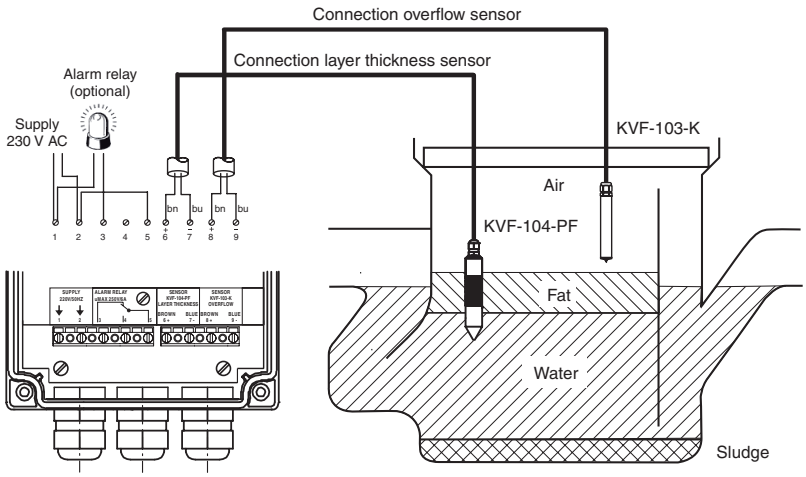
- Monitoring of layer thickness, i. e. when a given percentage of the max. accumulation capacity for fat has been reached
- Monitoring of liquid overflow, i. e. when the outlet is blocked

The warning device has a built-in acoustic alarm and LEDs which show the actual operation mode. Furthermore there is an independent, potential-free change over contact for the connection of central monitoring system or external remote alarm.

Features

- 230 V AC supply voltage
- Monitoring of overflow and back pressure
- Layer thickness monitoring
- Visual and acoustic alarm
- Connection to central monitoring system
- Direct wall-mounting option

Electrical connection



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Supply	
Connection	terminals 1, 2
Rated voltage	230 V AC ± 10 %, 50/60 Hz
Fusing	max. 10 A
Power consumption	3 VA
Indicators/operating means	
Display elements	LED STANDBY (indication status alarm relay), one green LED LED OVERFLOW, one yellow LED LED LAYER THICKNESS, one yellow LED LED SENSOR FAULT, one red LED
Operating elements	button ALARM RESET: reset of the alarm relays and of the acoustic alarm
Input	
Connection	input 1: layer thickness sensor terminals 6+, 7- input 2: overflow sensor terminals 8+, 9-
Output	
Connection	terminals 3, 4, 5
Output	potential free changeover contact
Contact loading	250 V AC/6 A
Electrical isolation	
Output/power supply	reinforced insulation acc. to EN 50178, rated insulation voltage 300 V_{eff}
Output/output	reinforced insulation acc. to EN 50178, rated insulation voltage 300 V_{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	-20 ... 60 °C (253 ... 333 K)
Mechanical specifications	
Protection degree	IP65
Connection	Cable gland PG13.5
Material	Polycarbonate
Mass	530 g
Dimensions	130 x 130 x 77 mm (5.1 x 5.1 x 3 in)
Mounting	panel mounting
General information	
Supplementary information	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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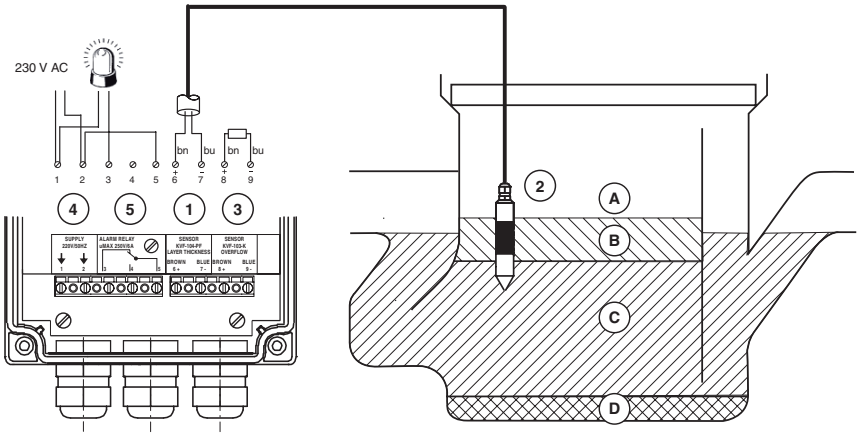
Electrical connection

Connection and configuration NVD-11 with layer thickness sensor

1 Layer thickness sensor connection
2 Layer thickness sensor NVF-104/34-PF
3 Resistor 220 Ω
4 Power supply connection
5 Alarm relay connection (optional)
bu blue
bn brown

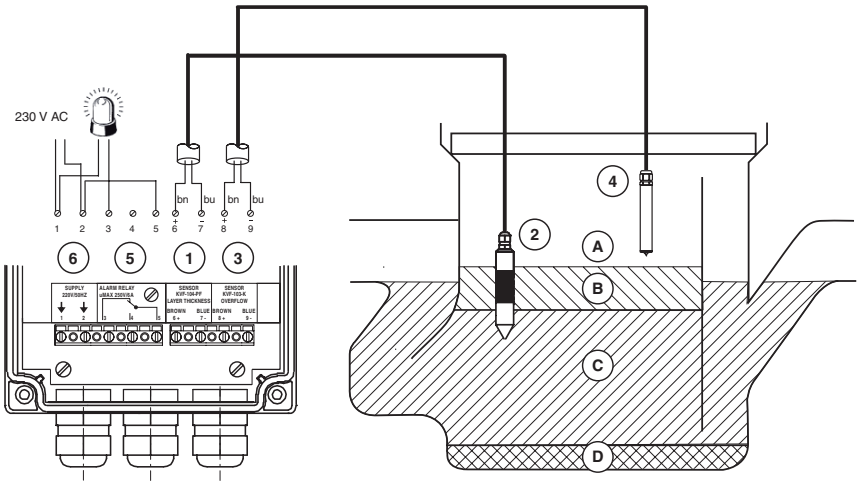
A Air
B Fat
C Water
D Sludge



Connection and configuration NVD-11 with layer thickness sensor and overflow sensor

1 Layer thickness sensor connection
2 Layer thickness sensor NVF-104/34-PF
3 Overflow sensor connection
4 Overflow sensor KVF-103-K
5 Power supply connection
6 Alarm relay connection (optional)
bu blue
bn brown

A Air
B Fat
C Water
D Sludge



Product program

Warning device

Warning device, 230 V AC	NVD-11

Sensors

Overflow sensor for overflow monitoring	KVF-103-K
Layer thickness sensor for fat layer thickness monitoring	KVF-104-PF

For additional information see data sheets.

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