

Type code NVFR-125E

Features

- 24 V DC supply voltage
- Monitoring of overflow of inflammable liquids
- Capable of distinguishing between air and liquid
- · Sensor without connection head
- Delivery in single components

Function

The level sensor NVFR-125E is a sensor for overfill protection in containers or tanks with inflammable liquids such as petrol or oil. The sensor NVFR-125E must always be connected to an ATEX-approved, intrinsically safe warning device of type NVO5-11.

The sensor is a PTC resistor sensor. It is energized via an intrinsically safe relay. The sensor warms up if it is enclosed by air and, at the same time as falling current, the ohmic resistance in the sensor increases. The intrinsically safe relay is in normal status. If the sensor is enclosed by liquid, it does not heat up and the current increases. The intrinsically safe relay switches to alarm position. The sensor can distinguish between liquid and air.

The sensor is encapsulated in a plastic tube.

Dimensions

Technical data

Group, category, type of protection, temperature classification

 U_i

I_i

 P_i

Voltage

Current

Power

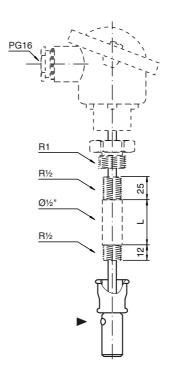
Internal capacitance Ci

Internal inductance Li

Directive conformity
Directive 94/9 EC

General information

Supplementary information



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Supply	
Rated voltage	24 V DC
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	-25 80 °C (248 353 K)
Mechanical specifications	
Protection degree	IP54 connection haed side
	IP68 container or tank side
Connection	terminals in the connection head
Material	distance tube: steel, provided by customer
	sensor protection tube: plastic
Mass	approx. 500 g
Dimensions	see dimensions
Data for application in conjunction	
with hazardous areas	
EC-Type Examination Certificate	DEMKO 07 ATEX 142588

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0.1 µF for extension cable

0.3 mH for extension cable

EN 50014, EN 50020, EN 60079-14

EC-Type Examination Certificate, Statement of

24 V DC

400 mA

1.6 W

4q 000

0.1 mH

fuchs.com.

Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-