



Process Automation



Process Automation

Level Sensors | Level Detectors | Overfill Prevention



Accuracy



Flexible



Reliable

Sensors and Systems: www.fafnir.com

76 A and NB 220

Protect Your Business and Environment: with 76 A and NB 220 Overfill Solution for Polluting Liquids

FAFNIR's thermal overfill prevention device; the combination of the level detector 76 A and the measuring transducer NB 220 H is the ideal solution for overfill prevention of your tanks with water-polluting liquids.

Flexibility is key; with the option of having acoustic or visual signals directly integrated into the transducer, the FAFNIR solution adapts to your needs.

Why Choose 76 A with NB 220?

Quick and Precise

- + Easy installation due to a 2-wire connection to the transducer, protected against reverse polarity
- + The overfill prevention requires no maintenance after installation; no hidden costs
- + No on-site calibration required
- + Self-testing sensor

Dependable

- + The overfill prevention fulfills the requirements of the German Water Resources Act (WHG)
- + Proven: tens of thousands installations across Europe

Durable

- + With no moving parts, the 76 A and the NB 220 have excellent life expectancy and outstanding reliability
- + Space-saving, robust and corrosion-free design

Applications

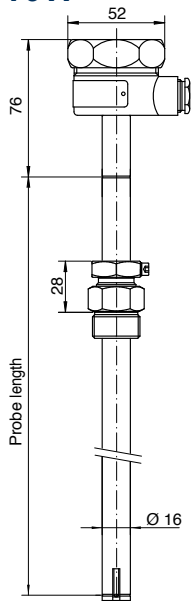
- + Diesel tanks
- + Storage tanks
- + Oil containers
- + Collection basins and safety pans



76 A – Technical Data

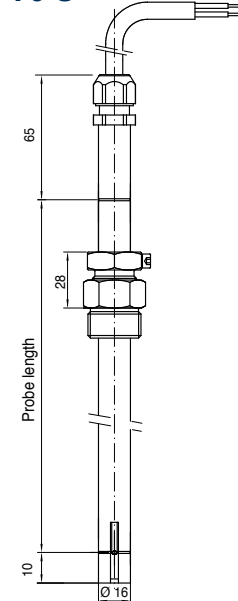
	76 A / 76 C	76 N
Process temperature	Standard: -25 °C ... +50 °C High temperature: -25 °C ... +80 °C	
Process pressure	0 bar ... 2 bar	
Immersion switch delay	< 2 s	
Heating-up time	At -20 °C < 2 min. At +60 °C < 15 s	
Material		
Connection housing	Brass	Brass, chrome-plated
Wetted parts (without test prod)	Stainless steel Spring steel, zinc-plated Vulkollan	Stainless steel 1.4301 (304) to 1.4571 (316Ti)
Test prod	POM; stainless steel 1.4301 (304) to 1.4571 (316Ti)	POM; stainless steel 1.4301 (304) to 1.4571 (316Ti)
Protection class	IP67	IP67
Cable terminal	Cable gland	Cable gland
Probe tube (outer Ø)	16 mm	16 mm
Probe length	100 ... 3.000 mm	100 ... 3.000 mm
Minimum process connection	G ¾"	G ¾"

76 A



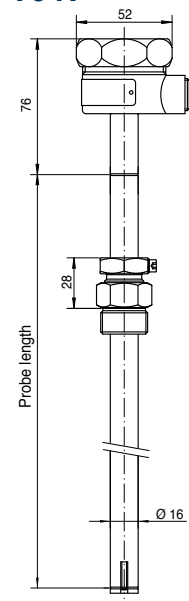
Our standard device for all applications. Easy installation as the sensor can be fitted independently of polarity.

76 C



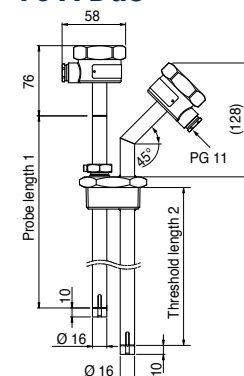
The version with the fixed cable, wherever there is no space for the housing, or for OEM applications with a pre-configured cable.

76 N

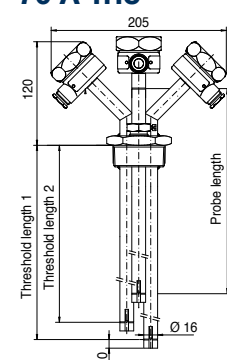


All wetted parts are made of high-quality stainless steel this means the sensor is suitable, for example, for AdBlue.

76 A Duo



76 A Trio





NB 220 – Technical Data

Name	NB 220 H	NB 220 QS	NB 220 QSF
Number of connections	1 Level detector	1 Level detector	1 Level detector
Auxiliary power	230V _{AC} ; 115V _{AC} ; 24V _{DC} ; 24V _{AC}	230V _{AC} ; 115V _{AC} ; 24V _{DC} ; 24V _{AC}	230V _{AC} ; 115V _{AC} ; 24V _{DC} ; 24V _{AC}
Power input	Max. 6 W or 4 VA	Max. 6 W or 4 VA	Max. 6 W or 4 VA
Ambient temperature	-25 °C ... +60 °C	-25 °C ... +60 °C	-25 °C ... +60 °C
Protection class	IP40	IP40	IP40
Dimensions (mm)	H 110 x W 51 x D 110	H 150 x W 75 x D 110	H 163 x W 97 x D 62
Outputs	Potential-free changeover contact: AC: U ≤ 250 V, I ≤ 4 A, P ≤ 100 VA; DC: U ≤ 250 V, I ≤ 250 mA, P ≤ 50 W	Switched power supply	Potential-free changeover contact: AC: U ≤ 250 V, I ≤ 4 A, P ≤ 100 VA; DC: U ≤ 250 V, I ≤ 250 mA, P ≤ 50 W
Output 1	not acknowledgeable	Changeover contact; potential of auxiliary power, not acknowledgeable *	Not acknowledgeable
Output 2		NO switch, potential of auxiliary power, acknowledgeable *	Acknowledgeable
Input		External potential-free acknowledge button	External potential-free acknowledge button
Acoustic signal		Integrated horn	Integrated horn
Acknowledge button		Integrated acknowledge button	Integrated acknowledge button
Test button			Available
Option	Dry run protection	Dry run protection	Dry run protection

* Outputs are protected with a 2 A fuse (total).



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