

Поплавковые выключатели серии LFL1-*K-N-*****

Технические характеристики

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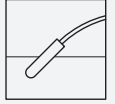
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Float Switch

LFL1-*K-N-*****



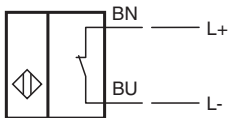
- Switch element: float switch with initiator, **mercury-free**
- Electrical connections in acc. with NAMUR for hazardous area
- Limit value detection for fluids
- Sleeve design: small diameter, mounting through G1 tap hole possible
- Ball design: high buoyancy



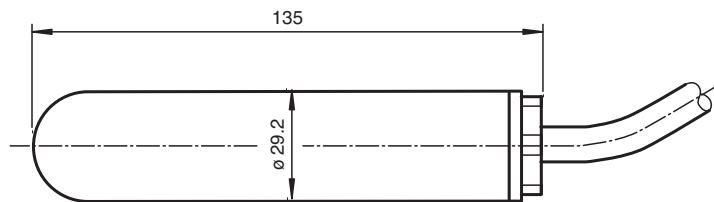
Function

The initiator (NC contact) is integrated in a PP float and is activated in the event of deviations from the horizontal position. The switching ball in the float, which moves along an axis, activates the switching event in the initiator inductively. The switch output provided by the initiator is a switch signal in accordance with EN 60947-5-6 (NAMUR).

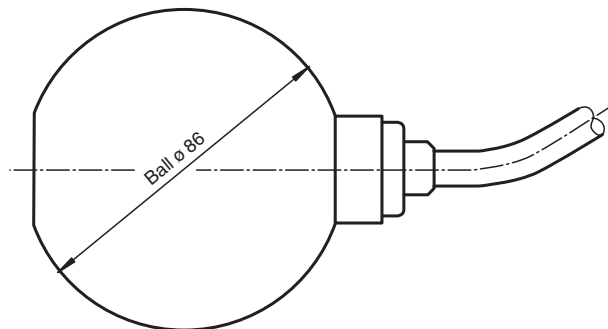
Application



Dimensions



Sleeve design LFL1-CK-N



Ball design LFL1-BK-N

Technical Data

General specifications		
Construction type		Proximity switch with operation ball
Series		LFL1-**-N
Supply		
Rated voltage	U _r	8.2 V ± 2 V
Current consumption		< 1.0 mA unswitched (de-energized at the bottom), > 2.2 mA switched (floated up at the top)
Reverse polarity protection		yes
Output		
Connection		NAMUR acc. to EN 60947-5-6 , 2-wire
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 60947-5-2:2007+A1:2012
Conformity		
Degree of protection		IEC 60529:2001
Function and system design		
Equipment architecture		A measuring system consists of a float switch LFL1-**-N and a transformer isolated barrier, e. g. KFD2-SR2-Ex1.W.
Operating conditions		
Installation conditions		
Installation instructions		range of application and minimum length between mounting and float: - PVC version: ≥ 50 mm (2 inch), preferred for water - PUR version: ≥ 100 mm (4 inch), preferred for fuels, heating oils, oily fluids - CSM/CM version: ≥ 100 mm (4 inch), preferred for many acids and lyes mounting: - The float switch is mounted either from sideways through a cable gland ≥ G1A into the vessel or - by means of a counter weight or rods (e. g. float switch combination) from the top. The pivot of the cable should always be horizontal.
Process conditions		
Process pressure (static pressure)		sleeve design: ≤ 3 bar at 20 °C (68 °F) ball design: ≤ 2 bar at 20 °C (68 °F)
Density		sleeve design: ≥ 0.8 g/cm³ ball design: ≥ 0.6 g/cm³
Ambient conditions		
Ambient temperature		-20 ... 70 °C (-4 ... 158 °F)
Storage temperature		-25 ... 70 °C (-13 ... 158 °F)
Altitude		≤ 2000 m above MSL
Mechanical specifications		
Degree of protection		IP68
Data for application in connection with hazardous areas		
EU-type examination certificate		TÜV 99 ATEX 1407
Marking		Ⓔ II 2G Ex ia IIB T5 Gb
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012+A11:2013 , EN 60079-11:2012
Mechanical construction		
Material		float: PP (Polypropylene) cable: - PVC version: PVC cable, highly flexible (2 x 0.75 mm²) - PUR version: PUR cable, highly flexible (2 x 0.50 mm²) - CSM/CM version: CSM/CM cable (chlorinated polyethylene, (2 x 0.75 mm²))
Switching point		switch angle, measured against the horizontal: - upper switch point +15° ±5° - lower switch point -15° ±5°
General information		
Supplementary information		
Accessories		

Technical Data

Designation	- LFL-Z231, counter nut, G1A, PVC - LFL-Z32, counter weight, grey cast iron with plastic coating (Polycarbonate) - LFL-Z33, counter weight, grey cast iron with ECTFE coating (Halar) - LFL-Z131, gland screw connection G1A, PVC - LFL-Z132, gland screw connection G1A, brass - LFL-Z161, gland screw connection G2A, PVC - LFL-Z431, gland screw connection 1 NPT, PVC - LFL-Z461, gland screw connection 2 NPT, PVC
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Safety Information

Users should take appropriate precautions when using accessories in explosion-hazardous areas.
The counter weights LFL-Z32 and LFL-Z33 must not be used in explosion-hazardous area.

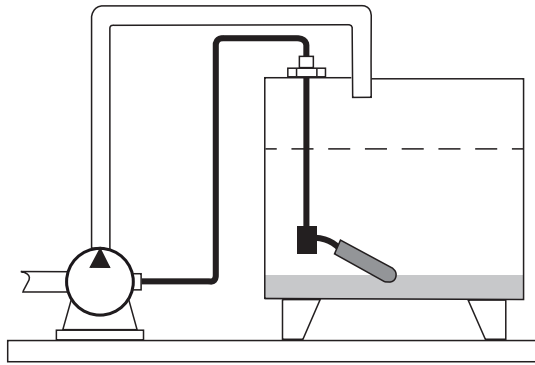
Type Code

This overview does not mark options which are mutually exclusive.

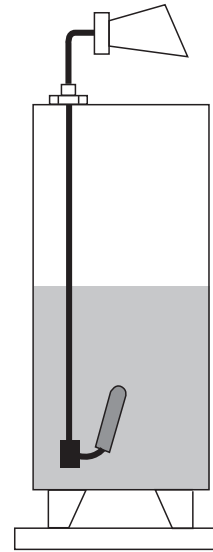
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Application

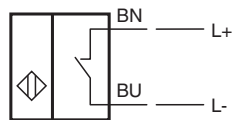
Level control via pump



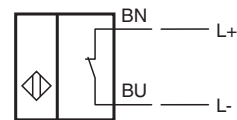
Level message via switching signal



Minimum fail safe mode connection



Maximum fail safe mode connection



Mounting

Mount the float switch in the following way:

- Insert the float switch into the tank through a tapped hole G1A.
- Screw the float switch with the gland screw connection G1A.
- If it is installed from above, use the counter weight LFL-Z32 or LFL-Z33 for mounting.



The fulcrum of the cable should always be horizontal.

The cable length between the fixture and the floating body is dependent on the cable type.

When using the counter weight, place an extra strain relief (e. g. a knot in the cable) behind the gland screw connection – on the outside of the tank.

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