

Поплавковые выключатели серии LFL4-*K-A2-*****

Технические характеристики

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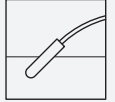
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Float Switch

LFL4-*K-A2-*****



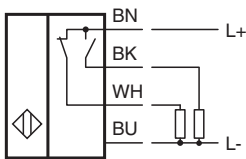
- Switch element: float switch with initiator, **mercury-free**
- Electrical connection with PNP output stage
- Limit value detection for fluids
- Sleeve design: small diameter, mounting through G1 tap hole possible
- Ball design: high buoyancy



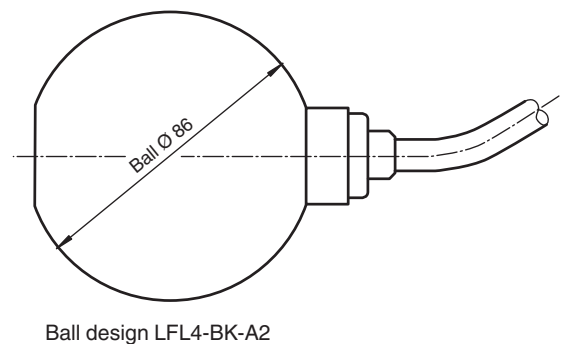
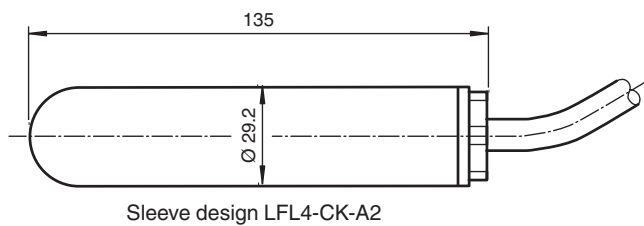
Function

The device has an initiator built into a PP float. This initiator switches in in the event of deviation from the horizontal position. A switching ball moves along an axis in the float and generates the switching operation in the initiator inductively. The switching output of the device has a PNP output stage.

Connection



Dimensions



Technical Data

General specifications

Construction type	Proximity switch with operation ball
Series	LFL4

Technical Data

Supply

Rated voltage	U _r	10 ... 30 V
Current consumption		< 10 mA at 24 V
Reverse polarity protection		yes

Output

Connection		PNP NO/NC
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Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN IEC 60947-5-2:2020

Conformity

Degree of protection		IEC 60529:2014
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Operating conditions

Installation conditions

Installation instructions		range of application and minimum length between mounting and float: - 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 - TPK 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.
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Process conditions

Process pressure (static pressure)		sleeve design: ≤ 3 bar at 20 °C (68 °F) ball design: ≤ 2 bar at 20 °C (68 °F)
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Ambient conditions

Ambient temperature		TPK version: 5 ... 70 °C (41 ... 158 °F) PUR version: -20 ... 70 °C (-4 ... 158 °F) CSM/CM version: -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
Dimensions		float: - sleeve design: Ø29.2 x 135 mm - ball design: Ø86 mm Cable: - PUR cable: Ø4.8 mm - CSM/CM cable: Ø6.7 mm - TPK cable: Ø6.9 mm

Mechanical construction

Material		float: PP (Polypropylene) cable: - PUR version: PUR cable, highly flexible (4 x 0.50 mm²) - CSM/CM version: CSM/CM cable (4 x 0.75 mm²) - TPK version: TPK cable (4 x 0.75 mm²)
Switching point		switch angle, measured against the horizontal: - upper switch point +15° ±5° - lower switch point -15° ±5°

General information

Accessories

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.

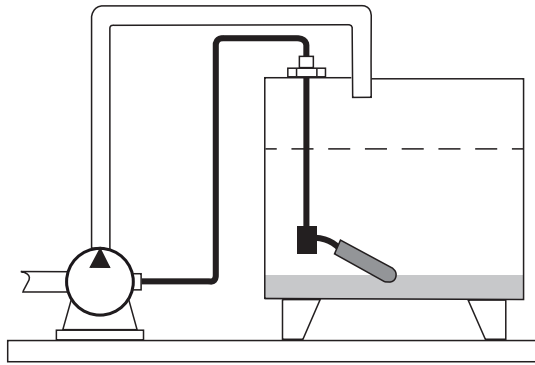
Type Code

This overview does not mark options which are mutually exclusive.

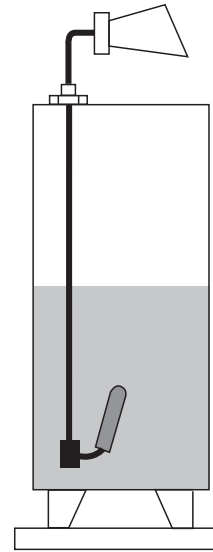
L	F	L	4	-	(1)	K	-	A	2	-	(2)	-	(3)
LFL4	Device												
LFL4	Switching contact with switching ball												
(1)	Float												
B	Ball												
C	Sleeve												
K	Float material												
K	Plastic PP												
A2	Electrical output												
A2	PNP output stage												
(2)	Cable material												
CSM	CSM/CM												
PUR	PUR												
TPK	TPK												
(3)	Cable length												
03	3 m												
05	5 m												
06	6 m												
10	10 m												

Application

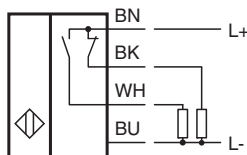
Level control via pump



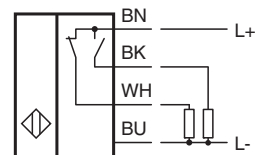
Level message via switching signal



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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