



Model Number

LFL1-BK-Z0-PUR5-EMS

Features

- **Switch element: Float switch with initiator, mercury-free**
- **Electrical connections 2-wire, 6 V DC ... 60 V DC**
- **Limit value detection for fluids**
- **Ball design: high buoyancy**

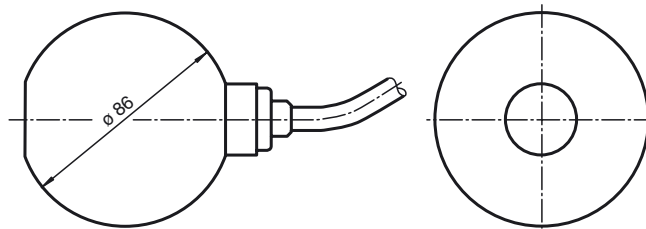
Description

The initiator 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 mechanical contact (6 V DC ... 60 V DC).

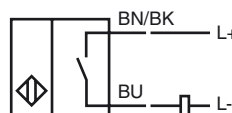
Technical Data

Application	
Description	inductive sensor with switching ball, floating up closing, normally open
Function and system design	
Equipment architecture	A measuring system consists of a float switch LFL1-**-Z* and a load switched in series.
Auxiliary energy	
Supply voltage	6 ... 60 V DC
Current consumption	4 ... 100 mA
Voltage drop	approx. 4.7 V at 100 mA
No-load supply current	0.73 mA
Reverse polarity protection	yes
Short-circuit protection	no
Operating conditions	
Installation conditions	
Installation instructions	range of application and minimum length between mounting and float: ≥ 100 mm (4 in), preferred for fuels, heating oils, oily fluids mounting: The float switch is mounted by means of a counter weight or rods (e. g. float switch assembly) from the top. The pivot of the cable should always be horizontal.
Process conditions	
Process temperature	-20 ... 70 °C (-4 ... 158 °F)
Process pressure (static pressure)	≤ 2 bar (29 psi) at 20 °C (68 °F)
Density	≥ 0.6 g/cm ³
Mechanical specifications	
Degree of protection	IP68
Mechanical construction	
Material	float: PP (Polypropylene) cable: PUR, highly flexible (2 x 0.50 mm ²)
Switching point	switch angle: upper switching point +12°, lower switching point -12°, measured against the horizontal
General information	
Directive conformity	
Directive 89/336/EEC (EMC)	EN 60947-5-2, EN 60947-5-2 A1
Conformity	
Degree of protection	EN 60529
Supplementary information	Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Dimensions



Electrical Connection



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