



**Model Number**

**LFL1-CK-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**
- **Sleeve design: small diameter, mounting through G1 tap hole possible**

**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 either from sideways through a cable gland ≥ G1A into the vessel or  
 - 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) ≤ 3 bar (43.5 psi) at 20 °C (68 °F)  
 Density ≥ 0.8 g/cm<sup>3</sup>

**Mechanical specifications**

Degree of protection IP68

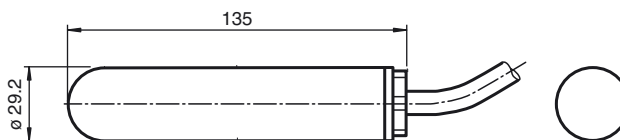
**Mechanical construction**

Material float: PP (Polypropylene)  
 cable: PUR, highly flexible (2 x 0.50 mm<sup>2</sup>)  
 Switching point switch angle: upper switching point +12°, lower switching point -12°, measured against the horizontal

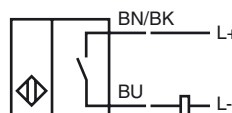
**General information**

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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