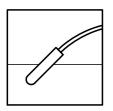
#### **Dimensions**

## Float switch



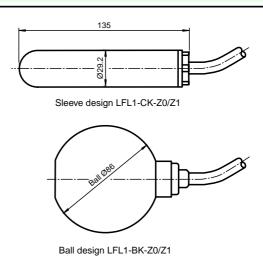
# LFL1-Z0/Z1





### **Features**

- Switching element: float switch with initiator
- Electrical connections 2-wire 6 V DC ... 60 V DC
- Determination of limiting values for fluids
- Sleeve design: small diameter, mounting through G1 tap hole possible
- · Ball design: high buoyancy



#### **Function**

The initiator is integrated in a PP float and is activated in the event of deviations from the horizontal position. The operation 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).

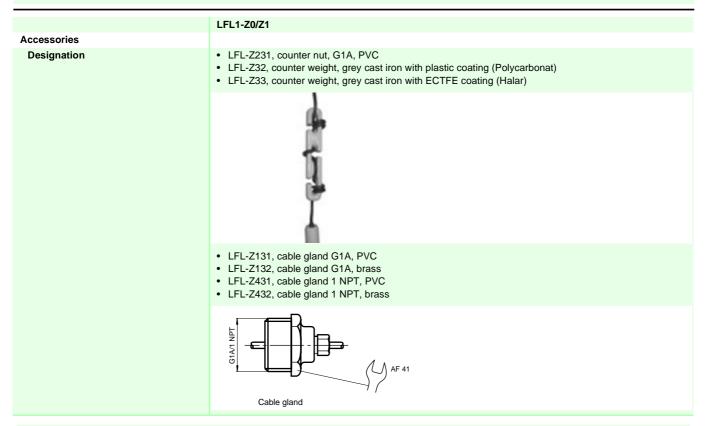
### **Electrical connection**

Cable colours
brown or black = L+
blue = L-

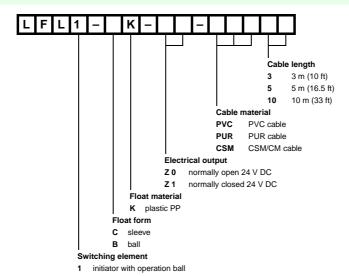
Z0 3/BN/BL L+

Z0 floating up closing

LFL1-Z0/Z1
inductive sensor with operation ball Z0 = floating up closing (normally open) Z1 = floating up opening (normally closed)
a measuring system consists of a float switch LFL1-Z0/Z1 and a load switched in series
6 60 V DC
4 100 mA
approx. 4.7 V at 100 mA
0.73 mA
yes
no
range of application and minimum length between mounting and float:  • PVC version: ≥ 50 mm (2 inches), preferred for water, waste water, slightly aggressive liquids  • PUR version: ≥ 100 mm (4 inches), preferred for fuels, heating oils, oily fluids  • CSM/CM version: ≥ 100 mm (4 inches), preferred for many acids and lyes  mounting:  • the float switch is mounted either from sidewards 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.
· ·
DINI EN COCCO IDCO
DIN EN 60529, IP68
PVC version: 5 70 °C (278 343 K) PUR version: -20 +70 °C (253 343 K) CSM/CM version: -20 +70 °C (253 343 K)
sleeve design: ≤ 3 bar at 20 °C (293 K) ball design: ≤ 2 bar at 20 °C (293 K)
sleeve design: ≥ 0.8 g/cm <sup>3</sup> ball design: ≥ 0.6 g/cm <sup>3</sup>
<ul> <li>LFL1-CK-Z*-PVC3</li> <li>LFL1-CK-Z*-PVC5</li> <li>LFL1-CK-Z*-CSM10</li> <li>LFL1-BK-Z*-PVC5</li> <li>LFL1-BK-Z*-CSM5</li> </ul>
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)
switch angle: upper switching point +12°, lower switching point -12°, measured against the horizontal
EN 60947-5-2: 1998, EN 60947-5-2 A1: 1999
EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions hav to be observed. This information can be found under www.pepperl-fuchs.com.



## Type code/model number



**ЗАО «ТД «Энерго** Россия 0 Сам т/ф 1-001- 1

**ЗАО «ТД «Энергосервер»**Россия 0 Самара ул М Тореза 10 т/ф 1-001- 1 1-001- 1-001- 1-001- L <u>e e e e e</u> - <u>e e e e e</u>