



Model Number

LFL2-CK-U-PUR5-EMS

Features

- **Switch element: microswitch, mercury-free**
- **Limit value detection for fluids**
- **Sleeve design: small diameter, mounting through G1 tap hole possible**

Description

The microswitch (change-over 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 microswitch.

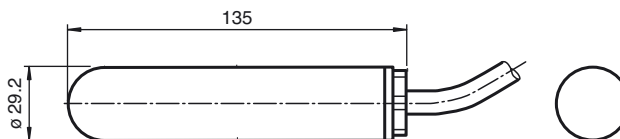
Accessories

- LFL-Z132-EMS**
Gland screw connection
- LFL-Z32-EMS**
Ballast weight for float switch

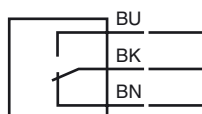
Technical Data

| | |
|------------------------------------|---|
| Electrical specifications | |
| Contact loading | 250 V AC/3 A; 150 V DC/0.25 A resistive load; 60 V DC/1 A resistive load |
| Rated insulation voltage | 300 V |
| Pulse withstand voltage | 4 kV |
| Electrical life | ≥ 5 x 10 ⁴ switching cycles |
| Directive conformity | |
| Low voltage | |
| Directive 2014/35/EU | EN 60947-5-1:2004 + Cor.:2005 + A1:2009 |
| Conformity | |
| Degree of protection | IEC 60529:2001 |
| Application | |
| Description | microswitch with switching ball, change-over contact |
| Function and system design | |
| Equipment architecture | This device may be used with any sequential circuit, as long as the circuit can support the electrical circuit values of the switching elements. |
| Operating conditions | |
| Installation conditions | |
| Installation instructions | range of application and minimum length between mounting and float: ≥ 100 mm (4 inch), 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 combination) from the top. The pivot of the cable should always be horizontal. |
| Process conditions | |
| Process pressure (static pressure) | ≤ 3 bar (43.5 psi) at 20 °C (68 °F) |
| Density | ≥ 0.8 g/cm ³ |
| Ambient conditions | |
| Ambient temperature | 5 ... 70 °C (41 ... 158 °F) |
| Storage temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Altitude | ≤ 2000 m above MSL |
| Mechanical specifications | |
| Degree of protection | IP68 |
| Cable | |
| Length | L 5 m |
| Mechanical construction | |
| Material | float: PP (Polypropylene) cable: PUR, highly flexible (3 x 0.50 mm ²) |
| Switching point | switch angle, measured against the horizontal: - upper switch point +25° ±10° - lower switch point -14° ±10° |
| General information | |
| 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

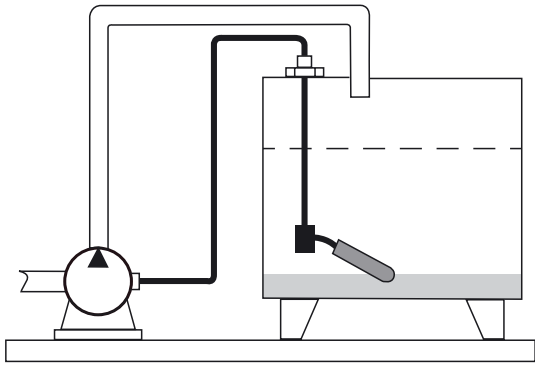


Electrical Connection

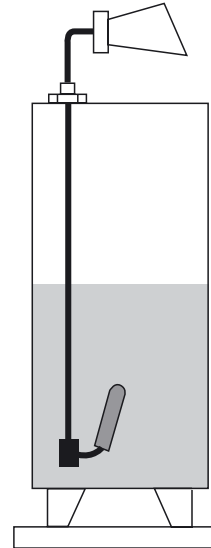


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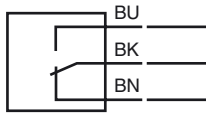
Level control via pump



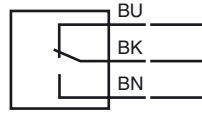
Level message via switching signal



Minimum fail safe mode connection



Maximum fail safe mode connection



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.