Float Switch





Model Number

LFL2-BK-U-PUR10-EMS

Features

- Switch element: Micro switch, mercury-free
- Limit value detection for fluids
 Ball design: high buoyancy
- _ ...

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

- Electrical specifications Contact loading
- Rated insulation voltage
- Pulse withstand voltage Electrical life
- Directive conformity Low voltage
- Directive 2014/35/EU Conformity
- Degree of protection Application
- Description Function and system design Equipment architecture
- Operating conditions Installation conditions
- Installation conditions

Process conditions Process pressure (static pressure) Density Ambient conditions Ambient temperature

- Storage temperature Altitude Mechanical specifications Degree of protection
- Cable Length
- Mechanical construction Material

Switching point

General information Supplementary information

Dimensions

250 V AC/3 A; 150 V DC/0.25 A resistive load; 60 V DC/1 A resistive load 300 V 4~kV $\geq 5 \times 10^4$ switching cycles

EN 60947-5-1:2004 + Cor.:2005 + A1:2009

IEC 60529:2001

microswitch with switching ball, change-over contact

This device may be used with any sequential circuit, as long as the circuit can support the electrical circuit values of the switching elements.

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 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.

 \leq 2 bar (29 psi) at 20 °C (68 °F) \geq 0.6 g/cm^3

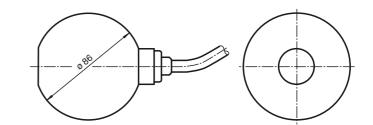
5 ... 70 °C (41 ... 158 °F) -25 ... 70 °C (-13 ... 158 °F) ≤ 2000 m above MSL

IP68

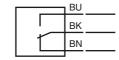
10 m

float: PP (Polypropylene) cable: PUR, highly flexible (3 x 0.50 mm²) switch angle, measured against the horizontal: - upper switch point +25° ±10° - lower switch point -14°±10°

Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.



Electrical Connection



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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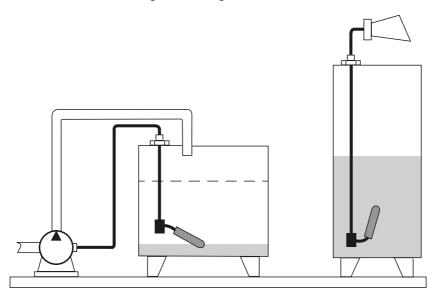


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LFL2-BK-U-PUR10-EMS

Application

Controlling pumps and valves with one switch or signal level height or limit



Mounting

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Mount the float switch in the following way:

- Insert the float switch into the tank through a tapped hole G1A. ٠
- Srcew 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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