CE

Float Switch LFL2

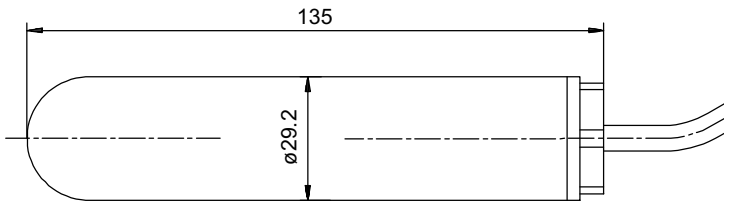
- **switching element: micro switch**
- **limit value detection for liquids**
- **cylinder type: small diameter, mounting through G1" tap hole possible**
- **ball type: high buoyancy**

Cylinder type
LFL2-CK-U-PVC3
LFL2-CK-U-PVC5
LFL2-CK-U-CSM3
LFL2-CK-U-CSM5

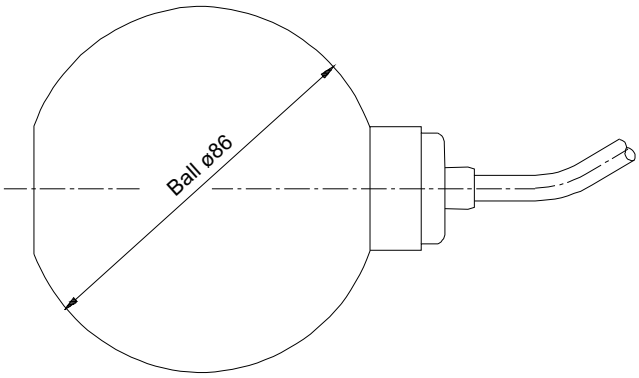
Ball type
LFL2-BK-U-PVC3
LFL2-BK-U-PVC5
LFL2-BK-U-CSM3
LFL2-BK-U-CSM5

Function principle
The micro switch (change over) is build into a PP-float and switches when out of the horizontal line. The switching ball is running on-axis and changes the state of the micro switch.

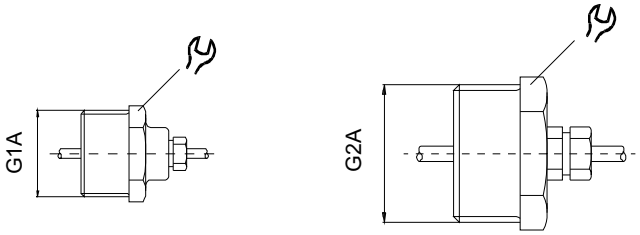
Mounting
The float is mounted either from sidewards through a cable gland ≥ G1A into the vessel or by means of an additional mass, or rods (e.g. float switch combination) from the top.
The pivot of the cable should always be horizontal. The minimum length of the cable between mounting and float is depending of the cable material (see technical data).



Cylinder type LFL2-CK



Ball type LFL2-BK



Accessories: cable gland

Types

LFL 2 - □ K - U - □□□ □

- cable length / cable material
- float type

Connection

cable colors		rising level
black-brown	=	contact opened
black-blue	=	contact closed

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CE

Float Switch LFL2

Technical data	
Switching element	Micro switch with switching ball
Switching function	Changeover
max. switching voltage	AC 250 V, DC 250 V
max. switching current	3 (1) A
Switching angle	upper switching point +18°(± 6°), lower switching point +5°(±3°), against the horizontal
Process conditions	
Temperature	
LFL2-□K-U-PVC□	-20 °C ... +70 °C (253 K ... 343 K)
LFL2-□K-U-CSM□	-20 °C ... +100 °C (253 K ... 373 K)
Pressure (20 °C)	
Cylinder type	≤ 3 bar
Ball type	≤ 2 bar
Density ρ	
Cylinder type	≥ 0.8 g/cm³
Ball type	≥ 0.6 g/cm³
Material of the float	PP (Polypropylene)
Cable	
Material and lenght	
LFL2-□K-U-PVC3	PVC-cable, highly flexible (3 x 0.75 mm²), 3 m
LFL2-□K-U-PVC5	PVC-cable, highly flexible (3 x 0.75 mm²), 5 m
LFL2-□K-U-CSM3	CSM-cable (Hypalon), highly flexible (3 x 0.75 mm²), 3 m
LFL2-□K-U-CSM5	CSM-cable (Hypalon), highly flexible (3 x 0.75 mm²), 5 m
Application range	
PVC	preferably for water, waste water, and aggressive liquids
CSM	preferably for most acids and lies
Minimum length of the cable between mounting and float	
PVC	≥ 50 mm
CSM	≥ 100 mm
Mounting	
from outside, sidewards	with cable gland (cylinder type)
from top	with additional mass or float switch combination

Accessories	**Ordering number**
LFL-Z131	Cable gland G1A, PVC
LFL-Z132	Cable gland G1A, brass
LFL-Z161	Cable gland G2A, PVC
LFL-Z231	Lock nut, G1A, PVC
LFL-Z31	Counter weight 2"
LFL-Z431	Cable gland 1"NPT, PVC
LFL-Z432	Cable gland 1"NPT, brass
LFL-Z461	Cable gland 2"NPT, PVC

This device may be used with any circuit, if this circuit complies with the connection values of the switching element.

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