

Suspended float switch

Model SLS

WIKA data sheet LM 32.01



Applications

- Wastewater treatment plants
- Pumping stations

Special features

- Suitable for sewage, wastewater and fluids containing solid matter
- Environmentally friendly, since it is mercury and lead-free
- Groundwater neutral PP case
- Long mechanical and electrical service life of the micro switch
- Also suitable for use in Ex zones 0, 1 and 2



Fig. left: Model SLS-C

Fig. centre: Model SLS-MS1

Fig. right: Model SLS-MS1-Ex

Description

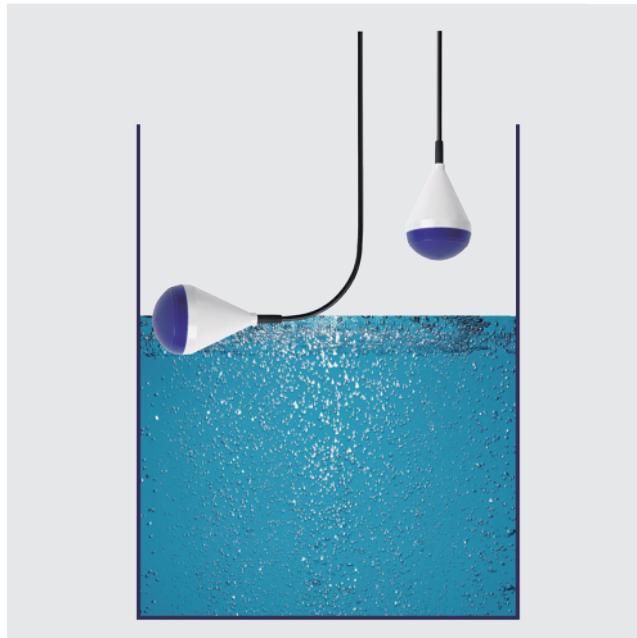
Suspended float switches are attached to a highly flexible cable hanging from above and contain a micro switch, which is potted and enclosed, shock and fracture-proof, in a double-chamber system. When the float body is immersed in a liquid, the float bulb tips and triggers the micro switch.

With the MS1 model range, a stabilisation weight is also built in, so that this switch is also suited for greater solids contents.

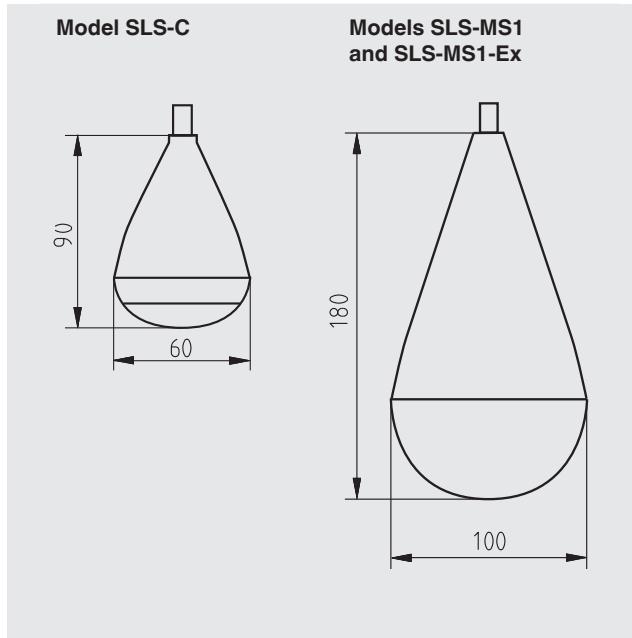
One suspended float switch is required for each switch point. The contact is designed as a change-over contact, so that it can be configured as a high alarm as well as a low alarm.

Through the patented, centrally mounted micro switch, the suspended float switch can switch in any direction, and not dependent on the direction in which the switch tips.

Illustration of the principle



Dimensions in mm



Specifications

| Specifications | Model SLS-C | | | Model SLS-MS1 | | | Model SLS-MS1-Ex | | | Model SLS-MS1-UL | |
|----------------------------|-----------------------------------|----------|----------|-----------------------------------|--------|--------|--|--------|--------|---------------------------------------|--------|
| Medium density | 950 ... 1,050 kg/m ³ | | | 950 ... 1,050 kg/m ³ | | | 950 ... 1,050 kg/m ³ | | | 952 ... 1,050 kg/m ³ | |
| Maximum temperature | 80 °C | | | 80 °C | | | 80 °C | | | 60 °C | |
| Switching power | 5 A, 250 V | | | 5 A, 250 V | | | 1 ... 100 mA, 4 ... 40 V | | | 5 A, 125 V | |
| Case | PP | | | PP | | | PP PRE-ELEC (anti-static) | | | PP UL94 V0 | |
| Colour | Blue/Grey | | | Orange | | | Black | | | Black | |
| Ingress protection | IP68 | | | IP68 | | | IP68 | | | IP68 | |
| Cable | PVC, black | | | TPK/PVC, orange | | | TPK/PVC, blue | | | SJOW 3/18 AWG | |
| Wire cross-section | 3 x 0.5 mm ² | | | 3 x 0.75 mm ² | | | 4G 0.75 mm ² | | | 3/18 AWG | |
| Cable length | 5 m | 10 m | 20 m | 5 m | 10 m | 20 m | 5 m | 10 m | 20 m | 15 ft | 65 ft |
| Order number | 85200987 | 85201122 | 85201124 | 006115 | 006116 | 112391 | 010924 | 006119 | 006121 | 125290 | 125291 |
| Approval | - | | | - | | | - | | | - | |
| | ■ Low voltage directive ■ RoHS | | | ■ Low voltage directive ■ RoHS | | | ■ Low voltage directive ■ RoHS | | | ■ Low voltage directive ■ RoHS | |
| | - | | | - | | | ■ SEV 13 ATEX 0102 II 1G Ex ia IIC T6 | | | - | |
| | - | | | - | | | ■ IECEx SEV 13.0001 | | | - | |
| | - | | | - | | | - | | | ■ cETLus 4004472 UL 508, CSA C22.2 | |
| | ■ Low voltage directive | | | ■ Low voltage directive | | | ■ Low voltage directive ■ Hazardous areas | | | ■ Low voltage directive | |

Ordering information

To order the described product the order number is sufficient.