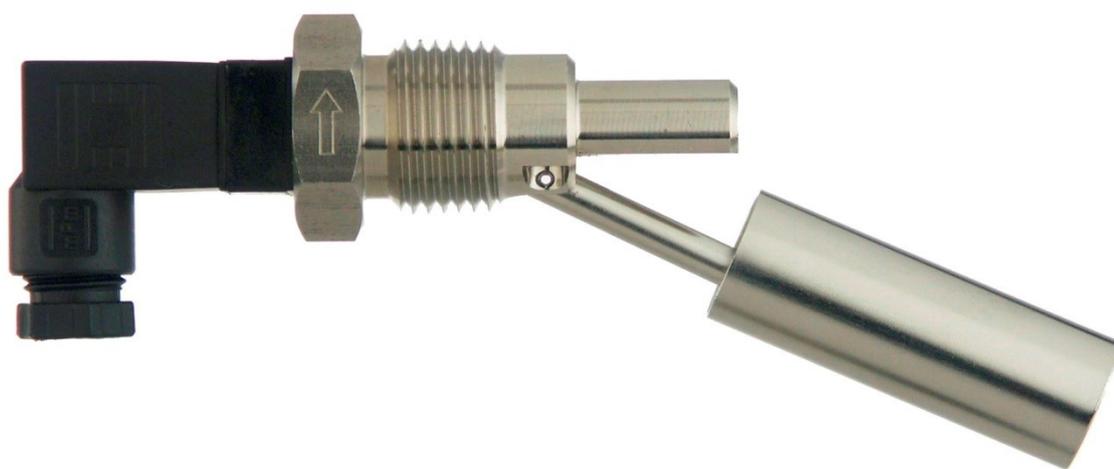




## Operating and Installation Manual for Float Switch SMH-5 Miniature Float Switch for Lateral Assembly



- Robust stainless steel construction
- Connecting plug
- Variable switching function
- Low maintenance



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### Functional description

The float switch SMH-5 operates according to the float principle with magnetic transmission. The reed switches, built into the pipe, are activated by a permanently mounted magnet within the float upon reaching pre-set switch points. The switching state of the reed switch can be evaluated and processed by a series-connected control unit.

### Application area

Mainly used for level controlling and monitoring of liquid media. The liquids should not be heavily contaminated or contain large particles and not show a tendency to crystallize. The components of the switch (pipe, float) which come into contact with the medium must be sufficiently resistant to the monitored medium.

### Assembly

When installing the switches according to their execution please make sure that they are installed in the correct position.

Use a suitable sealing to seal the process connection. For flange connections the corresponding bolts and nuts must be used.

### Note!

Installations inside ferromagnetic fittings may impair the function of the reed switches. This may cause malfunction and material damage. The switch must be mounted outside ferromagnetic fittings.

### Electrical connection

#### Note!

All electrical connections must comply with the regulations applicable to the country where the equipment is to be installed and have to be performed by qualified personnel .

#### Warning!

Overloading the float switches may lead to the destruction of the reed switch, which may cause a malfunction of the control system and harm persons or goods.

### Danger!

**Float switches with connecting cable without protective earth conductor may be live under faulty conditions. Touching the switch may cause harm to persons or even be lethal. These switches must only be used with protective low voltage according to VDE0100 or have to be mounted in such way, that the switch is earthed (or electrically connected to equipotential bonding).**



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### Commissioning / Functional test

Switch on the power supply for the connected control unit. Fill the vessel and check the switch point function. The functional test can also be conducted manually with the removed switch.

### Note!

Make sure that the functional test does not accidentally set any processes in motion.

### Maintenance

The float switches operate free of maintenance and free of wear when used properly.

### Note:

Do not operate float switches in the immediate vicinity of strong electromagnetic fields. The float switches may not be exposed to any heavy mechanical stress (shock, bending).

### Technical Data

Material	Stainless steel 1.4301
Switching capacity	300V, 0,5A, 50W
Switching function	Normally closed contact / Normally open contact
Max. pressure	5 bar
Temperature range	-40°C...+120°C
Connection	plug
Contact	Reed contact
Min. density of the liquid	0,8 kg/l

