

St. steel level switches



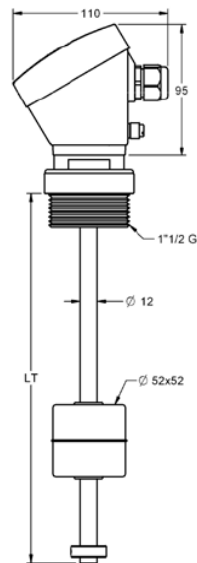
Principle of operation

The operation principle is based on the action of a serie of Reed micro-switches located inside de guide tube, switching on and off by means of magnet placed inside the float, which moves along the guide tube due to the level of the liquid.

Technical data:

Process connection:	Thread 1 1/2" or 2" BSP-M. (upon request also available with flange according DIN Norms).
Float:	Spherical Ø 52 mm. stainless steel AISI 316. Other diameters or cylindrical shaped floats upon request.
Wiring connection:	PBT connection box 64x95x110 mm. (also available with cable gland and DIN43650 connector (depending on number of contacts). ATEX version also available upon request.
Protection degree:	IP67.
Guide tube length:	100 ... 2000 mm., tube Ø 12 mm.
Contact type:	- Single change-over contact (SPDT) 10A / 250 Vac. - N. Open: 120W/VA - 3A / 250 Vac/Vdc. - N. Closed and SPDT: 60W/VA - 1A 230Vac/Vdc.
Max. pressure:	30 bar.
Temperature:	-40°C ... +125°C.
Density:	0,7 gr/cm ³ .
Number of contacts:	1 ... 4.

Dimensions:



How to determine a level switch

Determine the total length according to the characteristics of the tank and the liquid level you want to control.

According to the maneuver you wish to perform, determine the amount, location and type of contacts.

- Contacts: to define the type of contact (N. Open, N. Closed , NO/NC) are understood without the float. For instance, if you wish the switch to open circuit when the reservoir is empty (and therefore the float in the lower part of the guide tube) you may need the N. Closed type for that position.
- Direction of maneuver: ($\uparrow \downarrow$): Define the direction of performance of the float (filling or emptying) for a better adjustment of the contacts.
- Electrical connection: Unless otherwise indicated a common wire to all contacts will be provided. Also consider whether you may need a connection box, connector or cable gland.
- Additional floats: The sensor is by default equipped with one float, the bottom stop and, if required, the top stop. Additional floats can be added if required.
- Working conditions: Check that the conditions of pressure and temperature of the installation match with the ones allowed by the model chosen. Also pay attention to the chemical characteristics of the liquid. In case of doubt do not hesitate to contact us.