

# DATA SHEET

Article number : 09921006



## float switches

### Champ 2 G-L/F 05 m

for pumps used for filling or drainage

#### Function

Float switches are switching devices used to detect the fixed point levels of liquids. The devices trigger switching commands at a predefined fill level and can therefore control fill and drainage pumps, for example, depending on the fill level or trigger an alarm when certain fill levels are reached. The devices from the Champ series are equipped with either a NO or changeover contact and can monitor up to two different fixed point levels. If the fill level in the tank rises or falls, the position of the float switch changes, so that the contacts open or close at a definable fill level. An optional movable weight on the float switch cable can be used to set a corresponding float switch position for each fill level. The switching hysteresis, e.g. between "pump on" and "pump off" is fixed. The switching contact is installed in a robust, durable plastic housing. The float switch forms a hermetically sealed unit with the connection cable. The "L/F" design of these switches is able to both fill and drain liquid tanks, for example. Devices of the "G" variant provide a rubber connection cable. Devices of the standard variant are suited for use in standard environments, e. g. for water tanks.

#### Features

high switching reliability thanks to low-wear ball guide, easy to set the float switch using a counterweight that is available as an option, Housing material made of non-toxic PP, highly flexible neoprene connection cable

#### Applications

The most important application areas are pumps and drainage systems, wastewater or the chemicals industry, and anywhere where reliable fixed point detection in liquids is required.

#### Notes

not suitable for DC and low voltage, not suitable for use in potable water

#### Accessories

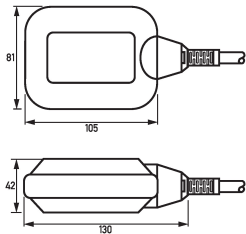
counterweights GGW

#### Technical data

|                                    |                                                                                                                                                                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series                             | Champ 2 L/F                                                                                                                                                                         |
| Number of (n.o, n.c., change-over) | 0 0 1                                                                                                                                                                               |
| suitable for                       | Rainwater, Cooling water, Condensate, Glycol                                                                                                                                        |
| min. Switching angle               | 45 °                                                                                                                                                                                |
| max. Switching angle               | 45 °                                                                                                                                                                                |
| no influence by                    | acetic acid, seawater, soap solution 5 %, water                                                                                                                                     |
| low influence by                   | phosphoric acid 85 %, ethyl alcohol, methyl alcohol, phenol, glucose, ammonium nitrate, zinc sulphate                                                                               |
| high influence by                  | hydrochloric acid 38 %, sulphuric acid 98 %, nitric acid 50 %, petrol, benzene, chloroform, sodium hypochlorite, mineral oil, sodium hydroxide, trichloroethylene, xylene, Vaseline |
| Operating voltage (AC)             | 230 V (207 V ... 253 V)                                                                                                                                                             |
| Operating frequency                | 50 Hz, 60 Hz                                                                                                                                                                        |
|                                    | <b>load circuit</b>                                                                                                                                                                 |
| Specification                      | switching contact                                                                                                                                                                   |
| Rated voltage (AC)                 | 250 V                                                                                                                                                                               |
| Rated current (AC)                 | 10 A                                                                                                                                                                                |
| Cable type                         | Ho7RN-F 3X1                                                                                                                                                                         |
| max. Connection C1 cable length    | 5 m                                                                                                                                                                                 |
|                                    | <b>General data</b>                                                                                                                                                                 |
| Operating position                 | horizontal                                                                                                                                                                          |
| Storage temperature                | -40 °C ... 70 °C                                                                                                                                                                    |
| Ambient temperature                | 0 °C ... 50 °C                                                                                                                                                                      |
| Housing type                       | closed                                                                                                                                                                              |

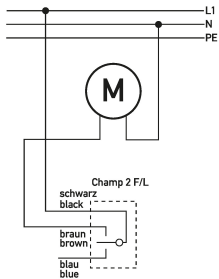
|                  |              |
|------------------|--------------|
| Housing material | non-toxic PP |
| Protection class | IP68         |
| sealable         | false        |
| Width            | 105 mm       |
| Height           | 81 mm        |
| Depth            | 42 mm        |
| Weight           | 0.682 kg     |

Dimensions



Dimensioned drawing float switches Champ 2 G-L/F 05 m

Wiring example



Wiring example float switches Champ 2 G-L/F 05 m

