# **FS00**

# **Float Level Switch**

- low-cost version
- simple installation
- vertical or horizontal mounting
- high switching rate, 10 (8) A, 250 VAC
- N/O, N/C or SPDT version available
- different cable materials, medium dependent
- max. temperature: 95 °C



#### **Description:**

The float level switches FS00 work according to the lift principle.

A hollow float is raised by the rising liquid until it reaches an angle of 45 ° from horizontal when switching takes place. The mercury free float switch can be mounted to the tank or container via a through hole such as a 1/2" cable gland or from the tank top. The switch point is defined by manipulating placement of an optional ballast weight on the connecting cable or by inserting cable through a tube of the desired length.

The FS00 level switch consists of a polypropylene housing with an integrated watertight and position dependent electromechanical microswitch. Cable connections from different materials and in different lengths may be chosen to suit the medium and tank dimensions.

#### **Typical applications:**

The FS00 float level switches are compatible to virtually all liquid media which do not affect the materials of the switch or cable. The unit is absolutely independent from the pollution of the medium. The FS00 may be used as MIN, MAX monitor, to control valves or pumps or as an alarm switch.



# **Material and Contact Function:**

| Materials: | PP housing, mirror welded                |
|------------|--|
|            | capnut PG 11 made of PA                  |
|            | connection cable according to order code |

#### **Contact function:**

based on rising level

|        | 8                                    |
|--------|--------------------------------------|
| FS00.S | N/O, 10 (8) A, 250 VAC color: red    |
| FS00.O | N/C, 10 (8) A, 250 VAC color: yellow |
| FS00.W | SPDT, 6 (4) A, 250 VAC color: orange |

#### **Connection Cable:**

3-wire for N/O and N/C, 4-wire for SPDT

#### Cable material:

| Neoprene       | black<br>standard cable for general use T <sub>max</sub> : 40 °C                         |
|----------------|--|
| Polyurethane   | yellow (3-wire), orange (4-wire)<br>for mineral oil / gasoline, T <sub>max</sub> : 40 °C |
| TPE FD special | green<br>for bio oil and -grease, chemicals,<br>T <sub>max</sub> : 95 °C                 |
| Special cable  | on request   |

#### **Electrical connection:**

| FS00.S | brown = COM<br>blue = signal (switched on by full tank)<br>green / yellow = protective ground   |
|--------|---|
| FS00.O | brown = COM<br>blue = signal (switched on by empty tank)<br>green / yellow = protective ground  |
| FS00.W | brown = COM<br>blue = Signal (switched on by full tank)<br>black = signal (switched on by empty tank)<br>green / yellow = protective ground |

## **Technical Data:**

| Operating temperature:               | max. 40 °C, with TPE FD special cable up to 95 °C |
|--------------------------------------|---|
| Storage temperature:                 | max. 95 °C  |
| Max. pressure:                       | 2 bar   |
| Switching angle:                     | ± 45°   |
| Protection class:                    | IP68  |
| Weight:<br>float:<br>ballast weight: | 110 g<br>ca. 330 g                                |
| Medium density:                      | min. 0,8 g/cm <sup>3</sup>                        |

# **Order Code:**

### Order number: Level float switch Contact function: S = N/O (on rising level) O = N/C (on rising level)

| W = SPDT                                    |
|---|
| Cable material:                             |
| N = Neoprene, black (up to 40 °C)           |
| P = Polyurethane, yellow (PUR, up to 40 °C) |
| L = TPE FD special, green (up to 95 °C)     |
| S = special material                        |
| Cable length:                               |
| 5 = 5 m                                     |
| 10 = 10 m                                   |
| 20 = 20 m                                   |
| 99 = special length                         |

# Options:

0 = with

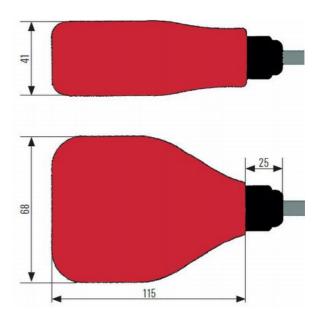
9 = please specify in plain text

#### **Accessory:**

#### Ballast Weight FS00-Z.G:

| Material:   | filled polyamide (black) |
|-------------|--------------------------|
| Dimensions: | 30 x 34 x 190 mm         |
| Weight:     | approx. 330 g            |

## **Dimensions:**





FS00. S. N. 5. 1. 0