

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

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
standard cable for general use T_{max} : 40 °C
Polyurethane yellow (3-wire), orange (4-wire)
for mineral oil / gasoline, T_{max} : 40 °C
TPE FD special green
for bio oil and -grease, chemicals,
 T_{max} : 95 °C
Special cable on request

Electrical connection:

FS00.S... brown = COM
blue = signal (switched on by full tank)
green / yellow = protective ground
FS00.O... brown = COM
blue = signal (switched on by empty tank)
green / yellow = protective ground
FS00.W... brown = COM
blue = Signal (switched on by full tank)
black = signal (switched on by empty tank)
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: $\pm 45^\circ$
Protection class: IP68
Weight:
float: 110 g
ballast weight: ca. 330 g
Medium density: min. 0,8 g/cm³

Order Code:

Order number: FS00. S. N. 5. 1. 0

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:

