



FS-16

PTFE Float Switch for Side Mounting

Features

/ High chemical resistance
/ Media temperature up to 150°C
/ High switching load
/ Easy to assemble
/ Reliable
/ Mercury free
/ Rod versions

Description:

The FS-16 series comprises Teflon® float switches having both an excellent temperature and a brilliant chemical resistance. The body of the float switch is made of PTFE with an integrated built-in reed contact. In addition, the cable outlet of the FS-16 can be supplied with a PTFE bellows, so that the cable does not come into contact with the medium. Furthermore, custom-made float switch combinations of up to three floats in a rod version, with a maximum length of three meters are possible. The FS-16 float switch operates according to the principle of buoyancy. A hollow float is lifted by the raising level of fluid as long as a switching operation is triggered at an angle of 20° to the horizontal line. The determination of the setpoint is performed by the lateral installation of the float switch on the desired height.

Application:

The main area of application is the detection of fluid levels (overflow and dry-running). By using at least two floats, one working as a maximum contactor and the other as a minimum contactor, in combination with a bistable contact protection relais from Profimess, automatic level control can be achieved. Design and material selection predestine this float switch for hot, extremely aggressive or contaminated liquids.

Contact protection relais:

We recommend the use of contact protection relays in combination with our float switches.

- · Especially for protection of individuals with regard to liquid contact
- Control for automatic filling or emptying via bistable interval relay with locking feature (see also multifunction relay MSR in the section accessories)



Version:

FS-16 PTFE Float Switch for Side Mounting

FS-16.1.x.x - PTFE Float Switch - with bellows **FS-16.2.x.**x - PTFE Float Switch - without bellows

Technical Specifications:

Process connection /

FS-16.1.x.x: G 1/2"- male thread

FS-16.2.x.x: cable outlet

Float size / Ø 55 mm, height 130 mm

Function / omni-directional float switch

max. Pressure / 1 bar max. Operating temp. / + 150°C

Float material / PTFE (Teflon®)

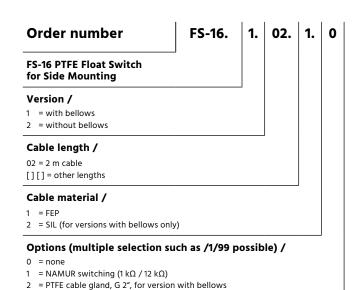
Cable material / SIL (silicone), FEP (Teflon®)

Cable length / 2000 mm (basic length)

Switching angle / $\pm 20^{\circ}$ from the horizontal line

Switching hysteresis / approx. 100 mm

Ordering Codes:



Electrical Specifications:

Switching element / reed contact

Contact / change-over

Switching voltage / 24...250 V AC/DC

Switching current / 1 mA. . .1 A

Switching power / max. 1 A, 60 VA / 60 W

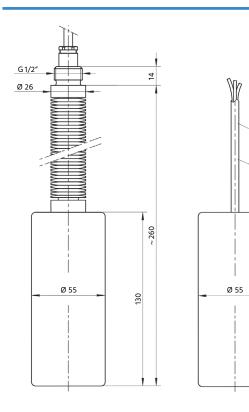
Protection class / IP68

Option /

Namur-switching: $1 \text{ k}\Omega / 12 \text{ k}\Omega$ (for connection at

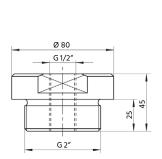
"Namur" relays only)

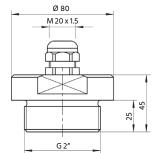
Dimensions in mm:



Accessories: 2" PTFE cable gland:

for FS-16.1





for FS-16.2

2000 mm

FEP (Teflon)

130



3 = PTFE cable gland, G 2", for version without bellows 99 = Special (please specify in detailed text)



Version:

FS-16S PTFE Float Switch Rod Version

Technical Specifications:

Process connection / as per DIN EN 1092-1

with one float: flange DN 65 with several floats: flange DN 100

Float type / with bellows (FS-16.1.)
Float size / Ø 55 mm, height 130 mm

max. Number of floats / 3

Function / omni-directional float switch

Measuring medium / fluid media Media density / $p \ge 0.75 \text{ g/cm}^3$ max. Operating temp. / $+ 150 ^{\circ}\text{C}$

max. Operating temp. / + 150°
max. Pressure / 1 bar

Float material / PTFE (Teflon®)

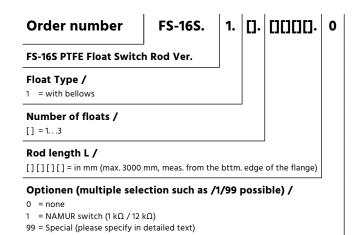
Rod material / stainless steel, PTFE coated

max. Rod length / 3000 mm

Switching angle / ± 20° from the horizontal line

Switching hysteresis / approx. 100 mm

Ordering Codes:



Other specifications:

Position of the 1st float: L1 = xxxx mm
 Position of the x. float: Lx = xxxx mm

(All length specifications are measured from the bottom edge of the flange)

Electrical Specifications:

Switching element / reed contact

Contact / change-over

Switching voltage / 24. . .250 V AC/DC

Switching current / 1 mA. . .1 A

Switching power / max. 1 A, 60 VA / 60 W

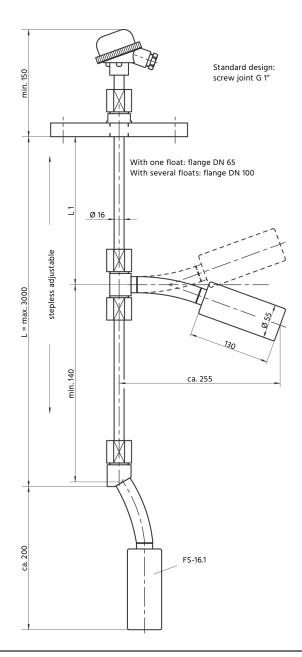
Protection class / IP68

Option /

Namur switching: $1 \text{ k}\Omega / 12 \text{ k}\Omega$ (for connection at

"Namur" relays only)

Dimensions in mm:





/ Level / Level monitoring with Floater

Level-Measurement and -monitoring

