



FS-05

Float Switch for Mounting through 1" Bushings

Description:

The FS-05 plastic float switch is a level switch in which a ball actuates a micro-switch depending on the inclination angle of the float cylinder. The single pole change-over contact changes its switching status depending on if the axis of the FS-05 is inclined by more than 20° positively or negatively to the horizontal line (fluid surface). On the basis of this action, the FS-05 is ideal suited for automating emptying and filling fluid vessels. The special feature of the cylindrical design of this series of float switch is that the maximum external diameter of the floating body does not exceed 29 mm, thereby allowing to insert the switch through an inch-system bushing into the vessel. The high switching capacity allows the user to switch pumps or large magnetic valves directly using the FS-05. In this, for safety-technical reasons, a contact protective relay such as the PROFIMESS MSR-10 should be deployed whenever there is a possibility of humans coming into contact with the measuring medium.

Application:

The FS-05 series of float switches is used in large numbers across several industries. Their excellent price to performance ratio often allows the user to decide in favor of such a plastic switch as against, for example, tuning fork switches or capacitive limit switches. Moreover, expensive downstream electronic units can be avoided since the FS-05 is capable of processing relatively high performance directly. Particularly, if ferrite particles in the measuring medium cause adhesions or float jamming with conventional float magnetic switches, the FS-05 with its non-magnetic switching element can be a dependable alternative.

The FS-05 can be mounted in two different ways. The float switch can be attached either sideways by means of a conventional cable joint so that the cable length projecting into the vessel determines the angle of switching and, therefore, the setpoints or, the FS-05 can be suspended vertically from above. The response points are determined by the position of the displaceable counter weight which is optionally available.

Features

/ High pressure resistance

/ Cost-effective

/ High switching load

/ Neoprene cable

/ Opt. available with counter weight



Electrical Specifications:

Switching element /	micro-switch as change-over contact
Electrical connection /	cable 3 x 0,75 mm ²
Switching load /	250 VAC - 50/60 Hz 10 A (resistive), 2 A (inductive)
Contacts /	silver / nickel
Protection class /	IP68

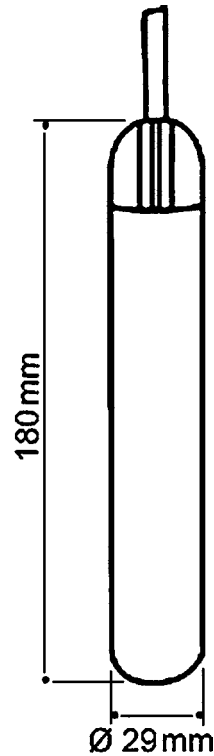
Technical Specifications:

Function /	omni-directional float switch
Measuring medium /	fluid media
Density range /	0.75. . 1.5 g/cm ³
max. Pressure /	5.5 bar
max. Media temperature /	85°C
Float material /	copolymer polypropylen
Cable material /	neoprene
Weight without cable /	60 g
Cable weight /	55 g per meter
Adjustable weight /	175g (optional)
Standard cable lengths /	5 m and 10 m (other lengths on request)
Switching angle /	± 20°

Ordering Codes:

Order number	FS-05.	05.	0
FS-05 Float Switch			
Cable length /	05 = 5 m neoprene-cable 10 = 10 m neoprene-cable		
Adjustable weight /	0 = none 1 = with adjustable weight		

Dimensions in mm:



Electrical Connections:

