



FS-08

Suspended Float Switch with Internal Weight

Features

- / Cost-effective
- / Easy to assemble
- / No response delay
- / Maintenance-free
- / Reliable
- / Media temperatures up to 70°C
- / Small switching hysteresis
- / High switching capacity

Description:

The series FS-08 consists of robust plastic float switches for water applications in two different sizes. The main advantage of this series is its internal weight, which allows the float to pass through grease or oil layers that tend to form in wastewater pumping stations and ensure a reliable detection of levels below these layers. The rounded design of the float and the relocation of the external weight inside also reduces the sensitivity to impurities and deposits. A smaller manufactured size for applications in containers with limited spatial conditions, e.g. like shafts and wells, is available. The FS-08 float switch operates according to the principle of buoyancy. A hollow float is lifted by the raising level of fluid until a switching operation is triggered at an angle of 10° to the horizontal line. The switch can be suspended by means of a screw joint directly in the vessel or, in the case of open vessels, from above.

Application:

The FS-08 level switch is suited for level monitoring in fluids as in all types of industrial applications of direct pump controlling thanks to its high power rating. It can be used especially as high or low level alarm, as overflow or dry-running protection and as well as pump control. Compatible mediums are clear, clean fluids, rain water, sewage water, slightly aggressive fluids like oils and mud etc..



Electrical Specifications:

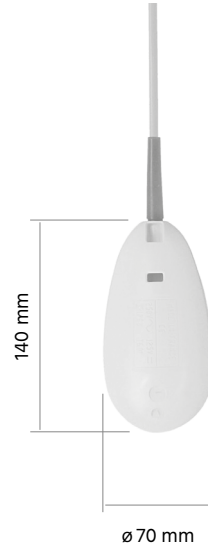
Switching element /	microswitch as changeover contact
Switching power /	
FS-08.1.x:	12, 24, 48 VAC / VDC and 250 VAC - 50/60 Hz 16 A (ohmic), 6 A (inductive)
FS-08.2.x:	250 VAC / VDC - 50/60 Hz 10 A (ohmic), 4 A (inductive)
Cable /	3 x 0.75 mm ² , PVC
Contacts /	silver / nickel
Protection class /	IP68

Technical Specifications:

Size /	
FS-08.1.x (small):	height 140 mm, Ø 70 mm
FS-08.2.x (large):	height 165 mm, Ø 100 mm
Function /	omni-directional float switch
Measuring medium /	fluid media
Media density /	0.95 to 1.05 g/cm ³
max. Pressure /	
FS-08.1.x:	3.5 bar
FS-08.2.x:	2.0 bar
max. Media temp. /	+70°C
Float material /	polypropylen
Cable material /	PVC
Weight without cable /	
FS-08.1.x:	400 g
FS-08.2.x:	775 g
Cable weight /	65 g per meter
Counterweight /	internal
Switching angle /	app. 10° from the vertical line

Dimensions in mm:

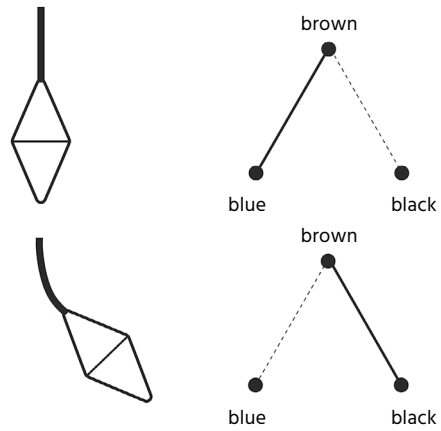
FS-08.1.x



FS-08.2.x



Electrical Connections:



Ordering Codes:

Order number	FS-08.	1.	06
FS-08 Float Switch			
Size /			
1 = small - 140 mm x 70 mm (height x diameter)			
2 = large - 165 mm x 100 mm (height x diameter)			
Cable length /			
06 = 6 m cable			
10 = 10 m cable			
□□ = other lengths			