



FS-01EX

Float Switch

Features

- / ATEX approval for Zone 0 and 20,
gases, dust and vapours
- / HR HY (Hypalon) -coated
float for hostile media
- / HR HY (Hypalon) cable
- / Non-Ex-version with
high switching load
- / Ex-version with gold contacts
for intrinsically safe operation

Description:

In the same way as the simple FS-01, the FS-01EX 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 25° to the horizontal line. The float switch can be inserted from the side by means of a screw joint directly in the vessel or, suspended from above with a weight as the pivot into the vessel or duct. The float of the FS-01EX is made of polypropylene as the basic material which is fully coated with HR HY (Hypalon). This material, also used for the FS-01EX cable, has excellent resistance to chemically hostile media. In the Ex version, the FS-01EX has gold-plated contacts instead of a standard micro-switch and must therefore be evaluated by an intrinsically safe power circuit.

Application:

The FS-01EX level switch is suited for level monitoring in chemically hostile fluids as they frequently occur, for example, in sewage treatment plants or pump sumps in contaminated soils. The switch is supplied always in the Hypalon-coated version and the standard version can be loadable with 16 (6) A at 250 VAC. In the ATEX approved variant, the mechanical design remains unchanged; however, the micro-switch is designed for an intrinsically safe power circuit.



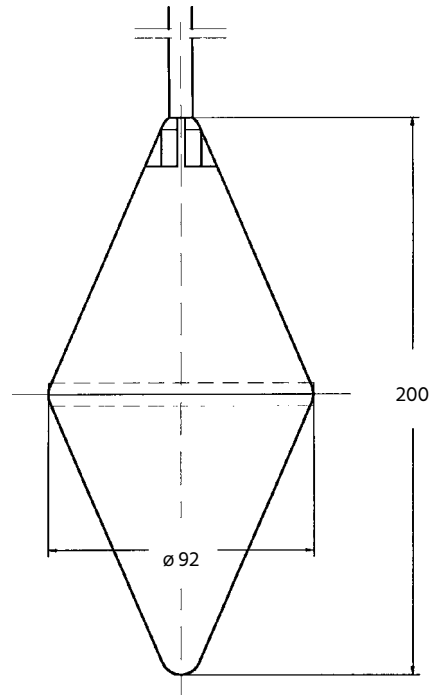
Technical Specifications:

max. Pressure /	4 bar
max. Mediatemp. /	FS-01EX.x.1 - without approval: max. 90°C FS-01EX.x.2 - with approval: T6 and Ta at ambient temperature from -20. . .+70°C
Float /	PP, fully HR HY (Hypalon) coated
Media density /	0,8. . .1,10 g/cm ³
Float weight /	300 g without cable
Adjustable weight /	250 g movable on cable
Switching angle /	± 25° to the horizontal line

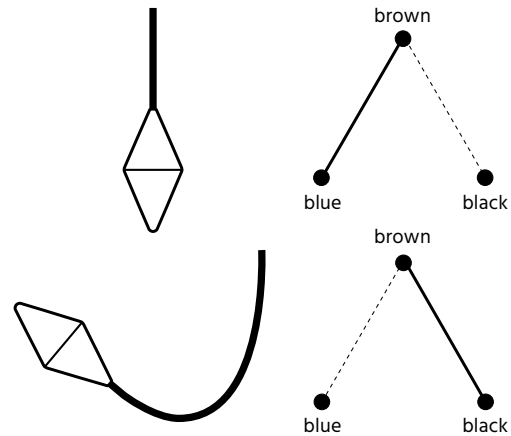
Electrical Specifications:

Switching element /	microswitch as change-over contact
Switching power /	FS-01EX.x.1 - without approval 12, 24, 48 VAC/VDC und 250 VAC - 50/60 Hz 16 A (ohmic), 6 A (inductive) FS-01EX.x.2 - with approval max. 24 VAC/VDC-10mA max. 12 VAC/VDC-100mA must be operated with intrinsically safe isolated switching amplifier
Ignition protection type /	ATEX II 1 GD Ex ia IIC T6 Ga Ex ta IIIC T70°C Da IP68
Cable /	3 x 1 mm ² , HR HY (Hypalon)
Cable weight /	110 g/m
Protection class /	IP 68

Dimensions in mm:



Electrical Connection:



Ordering Codes:

Order number	FS-01EX.	1.	2
FS-01EX Float Switch			
Cable length /			
1 = 5 m cable			
2 = 10 m cable			
Approval /			
1 = without			
2 = ATEX Zone 0			