

MODEL FC

CABLE SUSPENDED FLOAT SENSOR



Features

- Usable in corrosive liquids
- Mounts in limited overhead space
- Stable in turbulent liquids
- Adjustable switch operating levels
- Reliability/Long switch life

General Description

The FC series guard floats are designed for use in applications where the actuation level is too deep for our model FR (Max. 3.9 meter), where overhead space is limited, or where there is surface wave motion. The PVC or Polypropylene float and Hypalon cable are compatible with a wide range of corrosive liquids. The float is protected from turbulence and motion by a PVC guard. The switch operating levels are easily adjusted by altering the height of the cable fixing point. The switch operations, NO or NC, are easily changed by inverting the float.

A number of float units can be used together to give multiple level switch points in one flanged holder. Each float can be easily assembled on site and the switch operating points are adjusted by desired length of cable.

Operational Description

The FC consists of a float on a stem with a reed switch inside the stem. As the float rises or falls with the level of the liquid, the reed switch is activated by a permanent magnet in the float.

Technical Note

To avoid personal injury and protect the switch for electrical surges, connect the float to our relay unit model RE7000 or similar devices.

Specifications

Model	FC-5	FC-6	FC55/FC66
Drawing			
Operating Temperature	-10°C to 50°C		
Maximum Pressure	200kPa / 2bar		
Minimum S.G.	0.7	0.95	
Cable Length	6 meter (Max. 20 meter)		
Life Expectancy	1 × 10 ⁶ Operations		
Material	Cable	φ 8.1, SCM (Hypalon)	
	Body	PVC	
	Float	PVC	PP
	Housing		ABS
	Flange		PVC
	Weight		3kg, PVC (build in steel)
			PE
Mounting			JIS10K100A (4 holes)
Cable Entry			JIS F 20a (G3/4)
Protection			IP45*
Maximum Detection Points			6

*IP65 is optionally available.

Contact Rating

Max. Capacity	AC	15VA
	DC	15W
Max. Current	AC	1A
	DC	1A
Max. Voltage	AC	264V
	DC	200V

Minimum setting point

Model	Min. ℓ 1		Min. ℓ ~ ℓ	Min.L~ ℓ n	
	↑ ON, OFF	↓ ON, OFF		↑ ON, OFF	↓ ON, OFF
FC55, FC66	200mm	200mm	200mm	300mm	300mm