

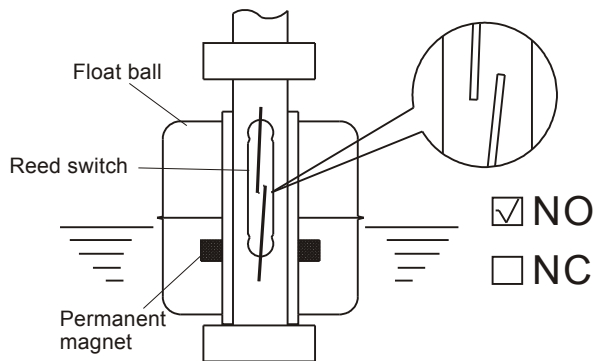
MAGNETIC FLOAT LEVEL SWITCH

PRINCIPLE

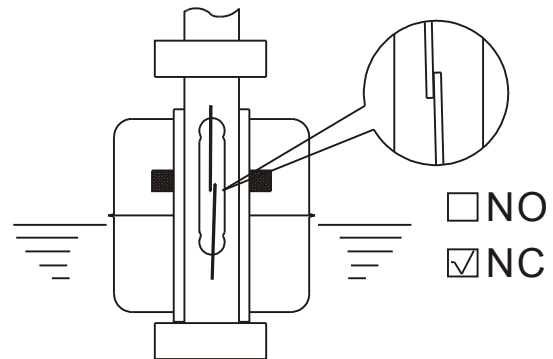
The single unit or multiple reed switch units are housed tightly in stainless steel or engineering plastic stem, and the permanent magnet is sealed into the middle of the specified float ball(s). You can mount the float ball to penetrating through the stem, then the liquid buoyancy will deliver the float ball up and down at the specified position by graduating rings.

When the float internal magnet approaches the reed switch, it will actuate the reed switch contact point to create an open or close circuit. We can apply such on-off output signals to reach liquid level controlling and monitoring purpose.

The figures below show the float orientations on N.O. (Normal Open) and N.C. (Normal Close).



Rising float ball to actuate the reed switch



Rising float ball to switch off.

FEATURES

Multiple points measuring, multiple level points are available for custom-built.

It is used the magnet to actuate the reed switch without any extra electric power source.

Each reed switch is durable for operation life reaching 2 million times.

All output signal wiring are simplified in same junction box (housing) to economize the external wiring construction.

YFC(D) type magnetic float level switches are more economical in budget than other level switches by comparison in multiple points.

The housing protection rating up to IP65. Rugged construction and multiple options for materials from engineering plastics as PVDF, PP, PVC, and stainless steels as SUS304, SUS316, float switches can be applied to versatile applications in chemical corrosion of acidity and alkalinity liquid, solvents or oil fuels.

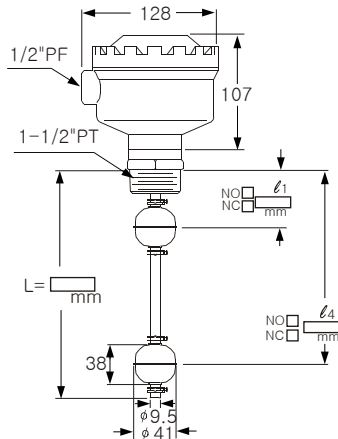
The reed switch and lead wire are isolated absolutely with liquids. All stainless steel switches are applicable to high pressure and high temperature performances.

STANDARD FLANGE TYPE

The housing complies with the IP65 rating and can therefore be used in outdoor environment.



Model : YFD-B-JM-1-S2-2-0500



- Stem material : Plastic
- Housing type : AL. (Big space) IP 65
- Connection : 5 "(125A)
- Pressure : 5kg/cm2
- Stem : , SUS304
- Float type: S2
- Length : 500mm

YF **D** **B** **JM** **1** **S2** **2** **0500**

Length: mm (total)
 0500: 50cm (01~50) ※ 50cm per Unit
 1000: 100cm (51~100)
 1500: 150cm (101~150)

Quantity of float
 Float Type (see page 7)
 P1,P2, P3, P4
 F2, F3, F4
 S1, S2, S3, S4, S5, S6, S7

Stem

Code size	Material	Code size	Material	Code size	Material
0: φ8	PP	6: φ16	PVDF	A: φ8	SUS316
1: φ8	SUS304	7: φ17.2	SUS304	B: φ9.5	SUS316
2: φ8	PVC	8: φ12.7	P.P.	C: φ12.7	SUS316
3: φ9.5	SUS304	9: φ12.7	PVC	D: φ17.2	SUS316
4: φ12.7	SUS304				
5: φ17.2	P.P.				

Connection Type

Housing Type

- D: Aluminum (Explosion-proof)
EEx IIC T3~T6
- N: SUS304 or SUS316
(Explosion-proof)
EEx IIC T3~T6
- B: Aluminum

YFC: Plastic (Stem)
 YFD: Metal (Stem)

※Certified by GL, ABS Marine grade are available. (Please see page 17)

Size for flange or screw		Pressure range or other
A: 3/8" (10A)	I: 4"(100A)	M: 5kg/cm² JIS
B: 1/2" (15A)	J: 5"(125A)	N: 10kg/cm² JIS
C: 3/4" (20A)	K: 6"(150A)	O: 150Lbs ANSI
D: 1" (25A)	S: Others	P: 300Lbs ANSI
E: 1-1/2"(40A)	1: 1/8"	Q: PT
F: 2" (50A)	2: 1/4"	R: PF (G)
G: 2-1/2"(65A)	3: 1-1/4"(32A)	T: BSP
H: 3" (80A)		U: NPT
		S: Others
		W: PN10 (10Bar)
		X: PN16 (16Bar)
		Y: PN25 (25Bar)
		Z: PN40 (40Bar)
		J : Adjustment screw
		K: Adjustment flange