

FF(FFX1) SIDE MOUNTING FLOAT SWITCH OPERATION MANUAL

PRINCIPLE

Employ theory of liquid buoyancy for the main principle of "FF" series. With change of liquid level the float travels up and down. The reed switch inside the enclosure acts by the affect of magnet on pivot. The same theory applies to micro switch . Utilize the interaction between magnets of pivot and micro switch to activate micro switch.

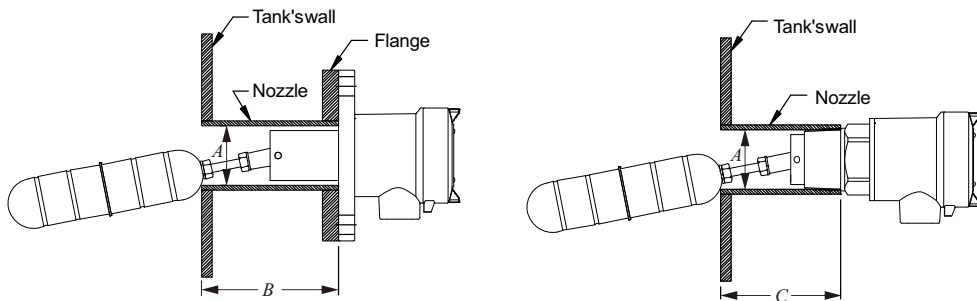
SPECIFICATION

Operation Temp. : -20°C~80°C (FF8 Acid / Alkali)
 -20°C~100°C (Standard)
 -40°C~200°C (FF20 High Temp.)
 -40°C~350°C (FF62DFM)

Contact Rating : FF1□: 5A/250Vac
 FF2□: 1A,60W 220Vac/200Vdc
 FF40: 5A/250Vac
 FF45: 1A,60W 220Vac/200Vdc
 FF50: 5A/250Vac
 FF55: 1A,60W 220Vac/200Vdc
 FF90: 5A/250Vac
 FF30: 1A,50W 220Vac/200Vdc
 FF62: 5A/250Vac
 FF8□: 1A,30W 220Vac/200Vdc

Contact Form : FF9□: SPDT
 FF30: SPST

NOZZLE LENGTH



INSTALLATION

1. The cable duct must face downward.
2. The float and extension rod must be inserted into a bin completely.
3. Chefore installation.
4. The mounting hole must be larger than that of float.
5. Don't mount the devices near the bin's inlet or outlet.eck the liquid object's S.G. b
6. The float & pivot moves (Up & Down) for 22°.
7. When the float move to horizontal position, the switch will be turned on or off.
8. The length of the nozzle has to comply with the pipe diameter. If the length of nozzle is too long it will affect the switching movement. The suggested maximum length of the nozzle is listed as below table:

(Unit:mm)

Pipe inner diameter (A)	Float Ø41X150L		Float Ø50X150L		Float Ø75X120L	
	Flange connection max.(B)	Screw connection (C) max.	Flange connection (B) max.	Screw connection (C) max.	Flange connection (B) max.	Screw connection (C) max.
45	102	91	⊕	⊕	⊕	⊕
50	103	92	102	91	⊕	⊕
55	105	94	103	92	⊕	⊕
60	108	97	106	95	⊕	⊕
65	112	101	107	96	⊕	⊕
70	122	111	110	99	⊕	⊕
75	135	124	114	103	106	95
80	148	137	124	113	107	96
85	161	150	137	126	109	98
90	170	159	150	139	112	101
95	186	175	163	152	115	104
100	199	188	169	158	119	108
105	212	201	188	177	125	114
110	225	214	201	190	136	125
115	⊙	⊙	214	203	149	138
120	⊙	⊙	⊙	⊙	162	151
125	⊙	⊙	⊙	⊙	174	163
130	⊙	⊙	⊙	⊙	⊙	⊙

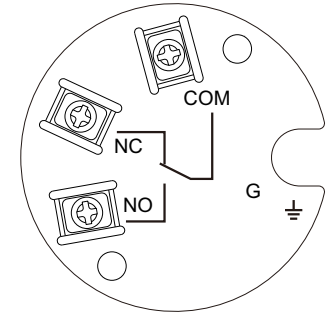
⊕: Float dia is larger than fne nozzle dia so sensor cannot be insert.
 ⊙: Nozzle length is not limited.

9. Tolerance of the total product length is $\pm 5\text{mm}$

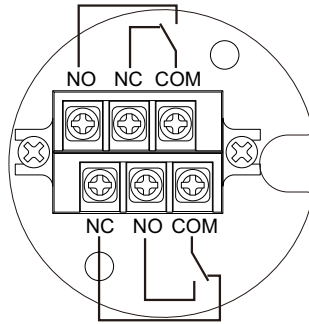
WIRING DIAGRAM

FF1□、FF2□、FF4□、FF5□、FF9□

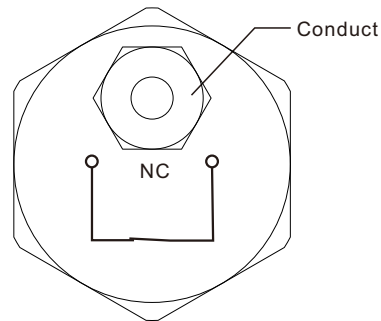
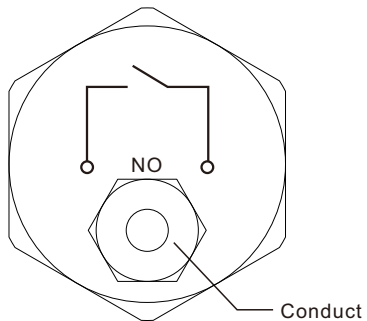
SPDT (Standard)



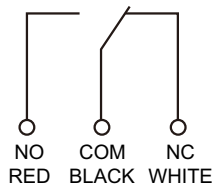
SPDTx2 (Option)



FF30(SPST)



FF8□



TROUBLE-SHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The float doesn't work	The pivot is blocked by granules. The outer linking pipe is too long to make pivot function. The float is blocked and inundated.	Clean out the bitty or granules. Shorten the length of outer linking pipe. Replace the float.
No signal output	Cable connection problem	Check the cable connection
	Reed Switch or Micro Switch is damaged	Replace the reed or micro switch

*Shall the trouble not to be rooted-out, please contact us.

MAINTAIN

- 1) Clean out the bitty or granule from float & pivot regularly.
- 2) Please check & fix all components into correct position.

BEFORE USE / OPEN CHECK

- 1) Please check the packing situation.
- 2) Please contact us while find the damage.
- 3) Please check carton content :
 - a)One set of Complete Product.
 - b)One set of Operation Manual.
 - c)One set of QA certificate.



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