



## Products and Solutions

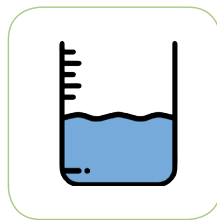
To Measure, Monitor and Control



Flow



Pressure



Level



Temperature



Analytical

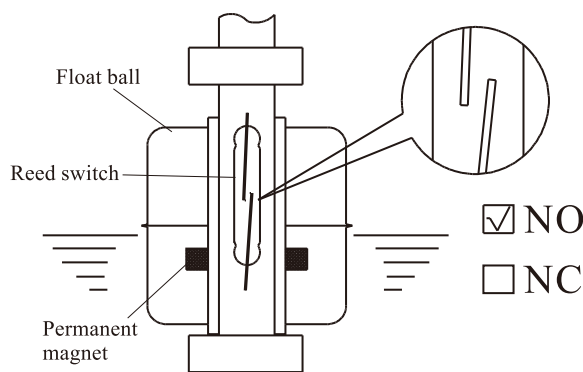
For The Process Industries

# AE MAGNETIC FLOAT LEVEL SWITCH

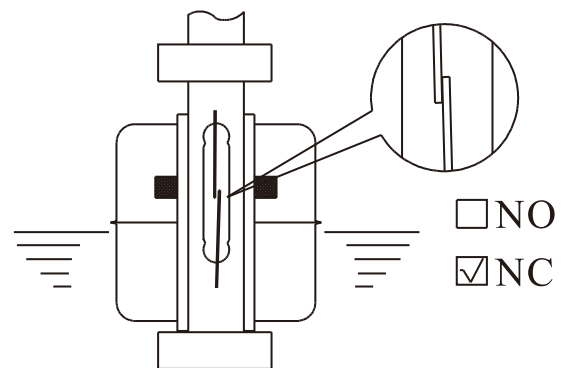
## PRINCIPLE

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

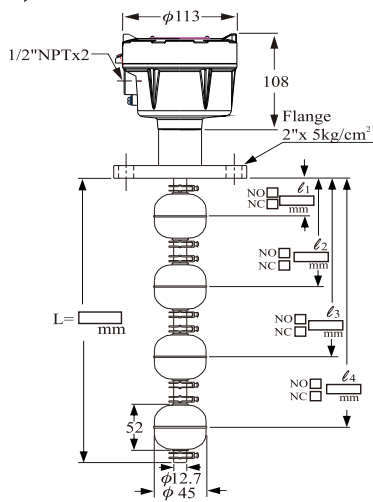
- ★ Multiple points measuring, multiple level points could be for custom-made.
- ★ Employing the magnet to actuate the reed switch requires no power. Life expectancy of each contact can reach up to 2 million times.
- ★ All output signal wiring are simplified in same junction box (housing) to economize the external wiring construction.
- ★ FC(D) type magnetic float level switches are more cost-effective than other level switches in terms of multiple points.
- ★ The housing protection is at least IP65.
- ★ Rugged construction and multiple options for materials from engineering plastics as PVDF, PP, PVC, and stainless steels such 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 with liquids absolutely. All stainless steel switches are applicable to high pressure and high temperature environment.

# AE MAGNETIC FLOAT LEVEL SWITCH

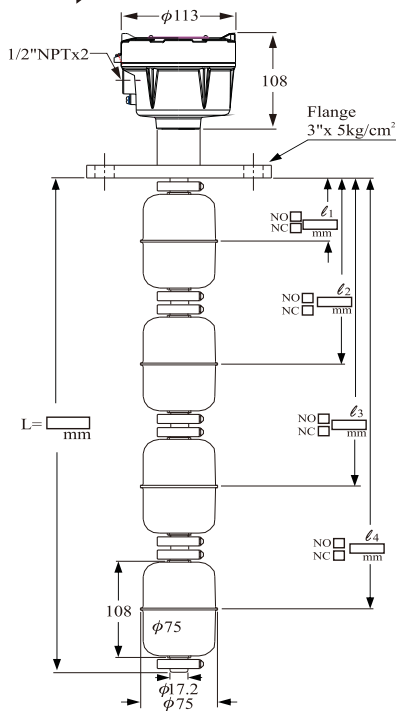
## EXPLOSION PROOF TYPE

### FLANGE TYPE

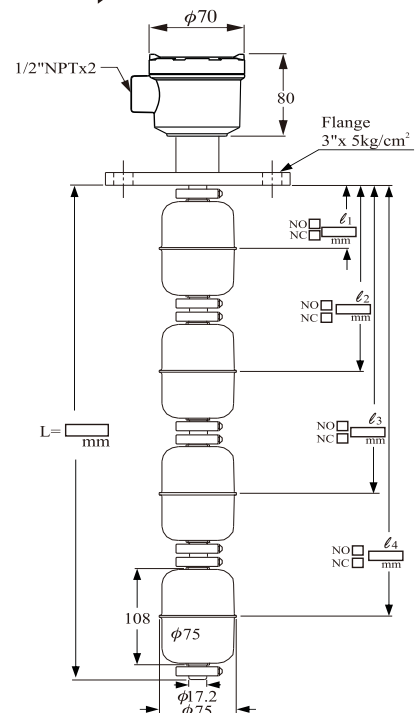
Type → FD7 D FM 4 S4 4



Type → FD7 D HM 7 S6 4

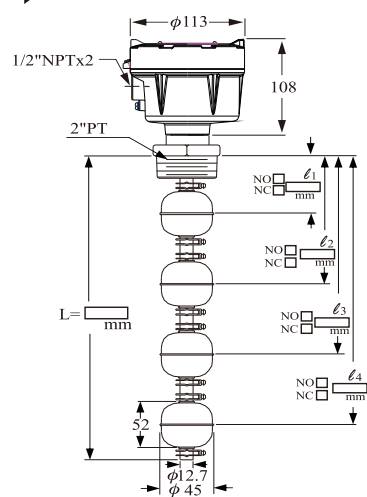


Type → FD7 N HM 7 S6 4

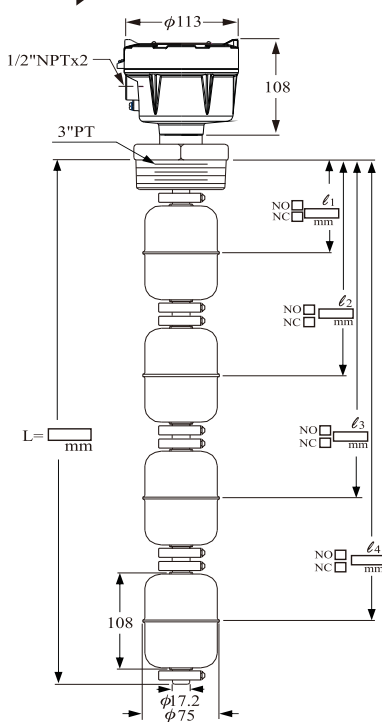


### SCREW TYPE

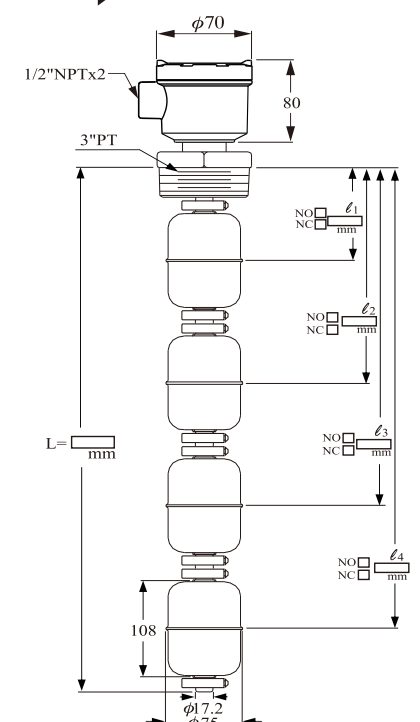
Type → FD7 D FQ 4 S4 4



Type → FD7 D HQ 7 S6 4



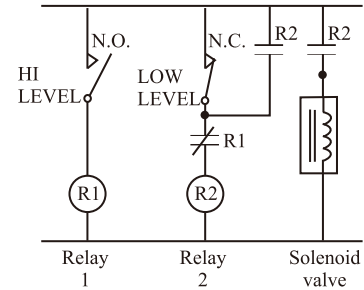
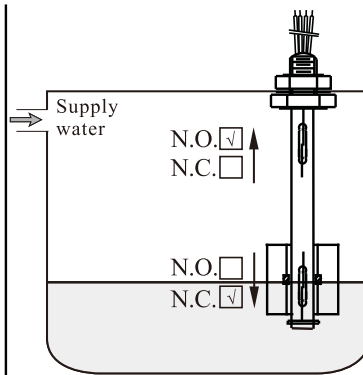
Type → FD7 N HQ 7 S6 4



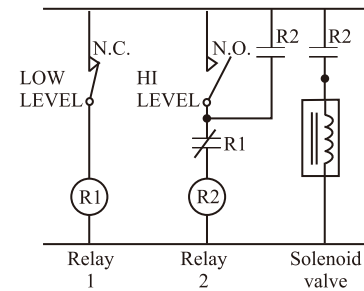
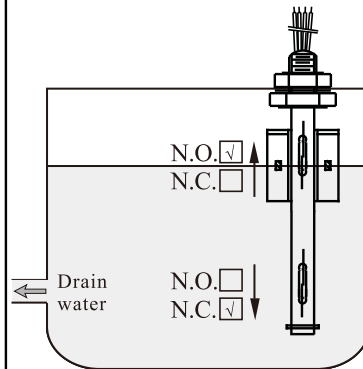
# AE MAGNETIC FLOAT LEVEL SWITCH

## TYPICAL WIRING DIAGRAMS

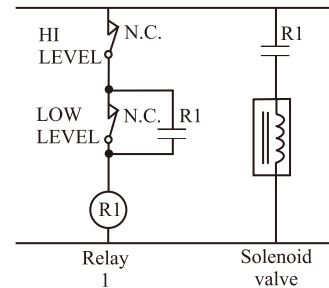
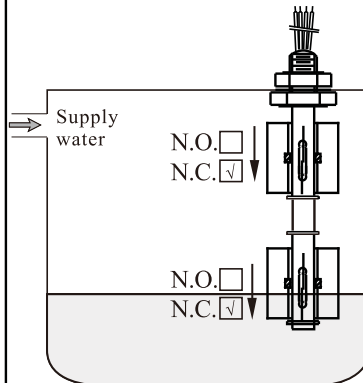
▶ AUTO SUPPLY CASE:  
SINGLE FLOAT  
DUAL SWITCHES



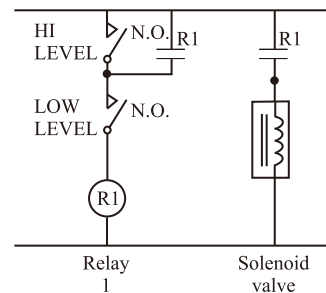
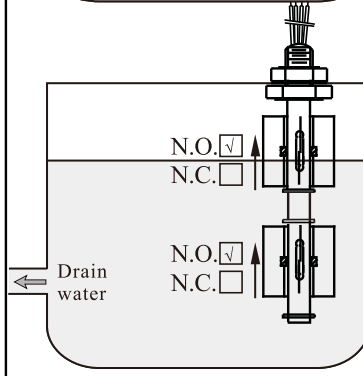
▶ AUTO DRAIN CASE:  
SINGLE FLOAT  
DUAL SWITCHES



▶ AUTO SUPPLY CASE:  
DUAL FLOATS  
DUAL SWITCHES



▶ AUTO DRAIN CASE:  
DUAL FLOATS  
DUAL SWITCHES



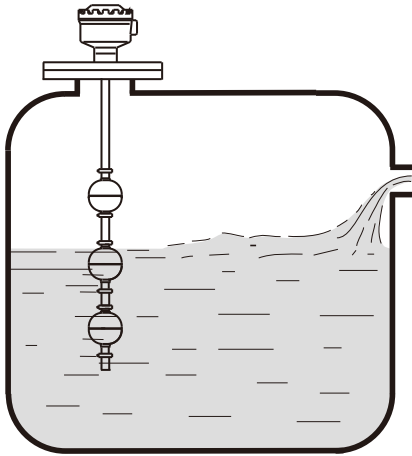
**Note:** The "N.O." Means normally opened circuit of the reed switch (off) in lower liquid level. As the float moves up to the specified higher level, the circuit closed (on).

The "N.C." Means normally closed circuit of the reed switch (on) in lower liquid level. As the float moves up to the specified higher level, the circuit open (off).

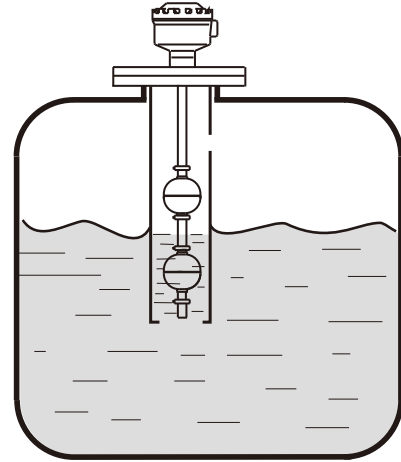
# AE MAGNETIC FLOAT LEVEL SWITCH

## INSTALLATION

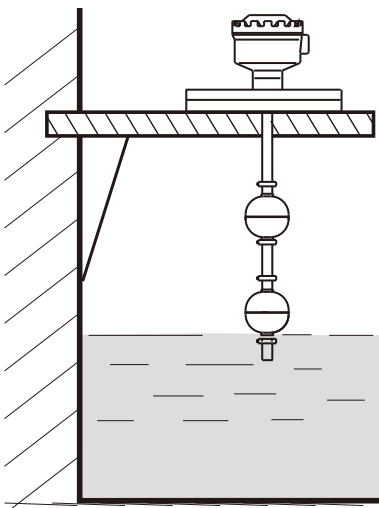
- The float level switch should be mounted far away from liquid inlet. Any strong liquid fluctuation will produce error output signals.



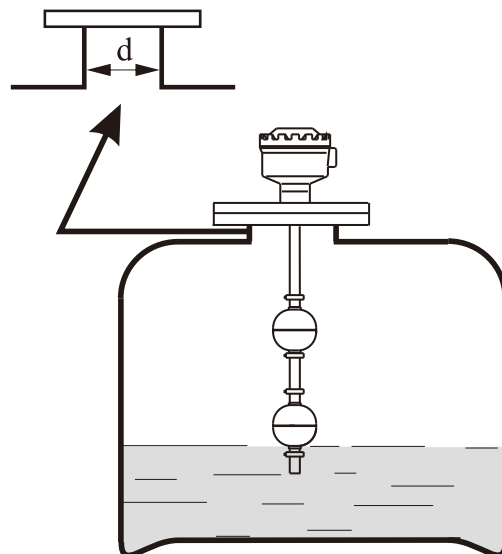
- It is advised to place a pipe shield or equivalent device to normalize the switch actuation if the switch is used near agitator.



- It had better require an L type supporter, when the switch is mounted in concrete wall tank as figure below.



- It is recommended to select the standpipe with diameter larger than the float ball for installation process.





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VALVES AND INSTRUMENTS

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