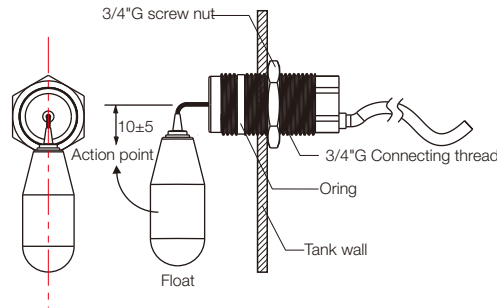


FF31N Side-Mounted Float Switch Operation Manual

OPERATING PRINCIPLE

When the float magnet moves close to the switch stationary stem, the float magnet repels the switch magnet which either opens or closes the electrical circuit.

Switch also have delay function. Delay alarm time is 15 ± 2.5 seconds. Delay function is suitable to control false alarm in a tank with turbulent medium level.



FEATURES

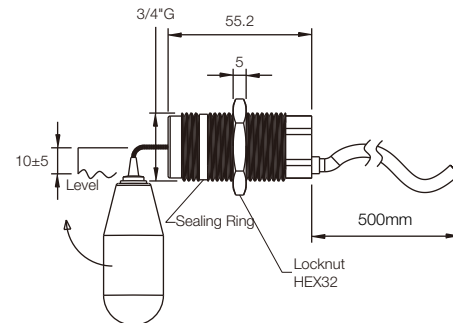
- link Plastic float hanged with steel cable
- Small installation space required
- For use in waste liquid environment for dirty liquid level detection
- Mainly used in high-speed rail motor car waste tank, locomotives dirt box

SPECIFICATIONS

Rated operational voltage	24VDC (16~35V)
Output	max. 35V, 0.5A
Switch contact type	When the liquid level up to the point while the actuator is turned on
Switching point	10 ± 5 mm (In the following cable centerline)
Connection	3/4"G
Cable outlet type	5x0.5 mm ² cable (24AWG*4C)
Operating temp.	-40°C to 70°C
Temp. Limit	-55°C to 70°C
Pressure Limit	≤ 110 kPa (1.1 bar)
Liquid Density	≥ 800 kg/m ³
IP rating	IP 67
Weight	Approx. 0.25 kg

DIMENSION

(unit:mm)



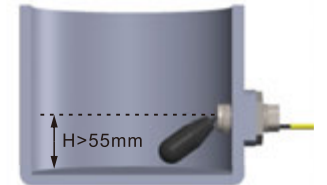
WIRING INSTRUCTIONS

FF31N_10	FF31N_30	FF31N_20	FF31N_1

Note: 1-Brown , 2-Blue , 3-Green , 4-Black
 OFF: The water level not reached the operating point
 ON: The water level reaches the operating point

MOUNTING INSTRUCTION

1. Do not replace yourself float of this product, to avoid affecting the normal operation.
2. Float should avoid shock or drop the ground , leading to the broken float magnet, loss of function.
3. Do not disassemble this product yourself, to avoid affecting the normal Operation of the circuit.
4. Installation location should be away from the water inlet and drain .
5. When installing FF31 series, please remain at least 55mm distance from the tank bottom to the center of the open hole.



Guarantee

All FineTek products will get one year guarantee in regular operation. Product within guarantee period will get service and no charge for any nominal fee. User finds any defect during delivery process or not be broken by wrong operation that can ask return or replace. In maintenance, user has the obligation to send all complete parts back to FineTek in well carefully package. Over range operation, over charge or any abnormal operation will excess out the guarantee range. Product not in guarantee period and condition will charge necessary fee for the repair or replace Things below will not in guarantee coverage and will be charged service fee:

1. Expire the guarantee date.
2. Not properly use according to operation manual. °
3. Irresistible environment effects or natural disaster (earthquake, flood disaster, fire, lighting stroke, hurricane) °



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