ISEN-FQ40/41
Cable float level switch

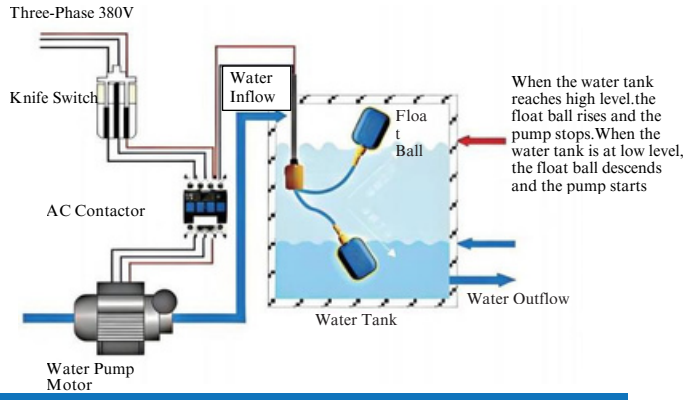
The cable float liquid level controller is designed based on the principle of gravityand force buoyancy, with a simple and reasonable structure. It mainlyincludes a float body, a large- capacitymicro switch set in the float body, a drive mechanism that can turn the switch on and off, and a three-core cable and a heavyhammer connected to the switch.

Product Features

1. Overall plastic molding with imported patented technology;
2. Simple and reasonable structure, stable and reliable performance;
3. Very convenient to install and use, and easy to adjust on site;
4. Can be used with various water pumps, and widely used in water supply and drainage and automatic control of liquids containing corrosion and suspended matter;
5. Can also be made into groups for multi-point control

Working Principle

The cable float liquid level controller is a liquid level signal device that uses the contacts inside the float to send signals. A steel ball and a micro switch or mercury switch are sealed inside the ball, and its three-phase 380V leads are three-core rubber-sheathed soft cables. When the liquid reaches a given position, the float quickly turns over to activate the contacts. The fixed position and range of action of thefloat can be adjusted as needed

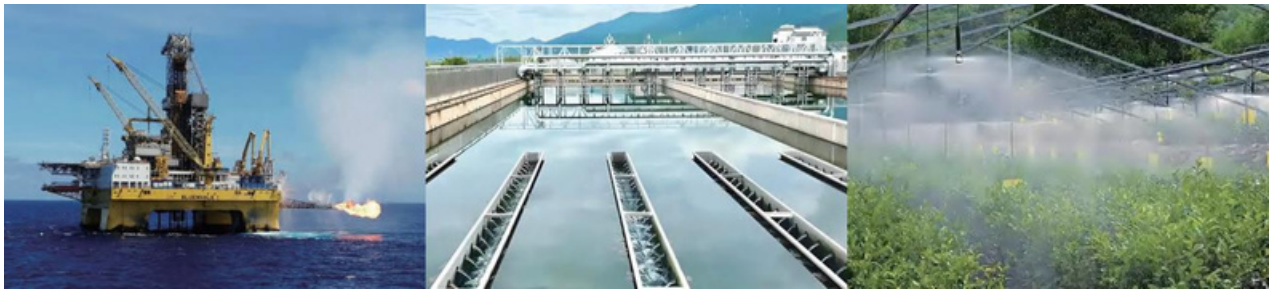


Application Field

Cable floats are widely used in water treatment facilities, agricultural irrigation systems, industrial cooling towers, drainage systems, fire protection other industries. They can be used for liquid level control of various large containers, mainly including:

1. In marine projects such as offshore oil extraction and submarine cable laying, ensure the safe operation of cables in seawater;
2. River cable protection: When laying cables in rivers, cable floats can ensure that the cables are not washed away by water or damaged by riverbed obstacles, ensuring the stable operation of cables.
3. Lakes and reservoirs: In lakes and reservoirs, cable floats can be used to protect cables from erosion and damage by aquatic organisms, extending the service life of cables.

Application Field（Continued）



Offshore oil extraction　　Water treatment industry　　Agricultural irrigation

Product Line

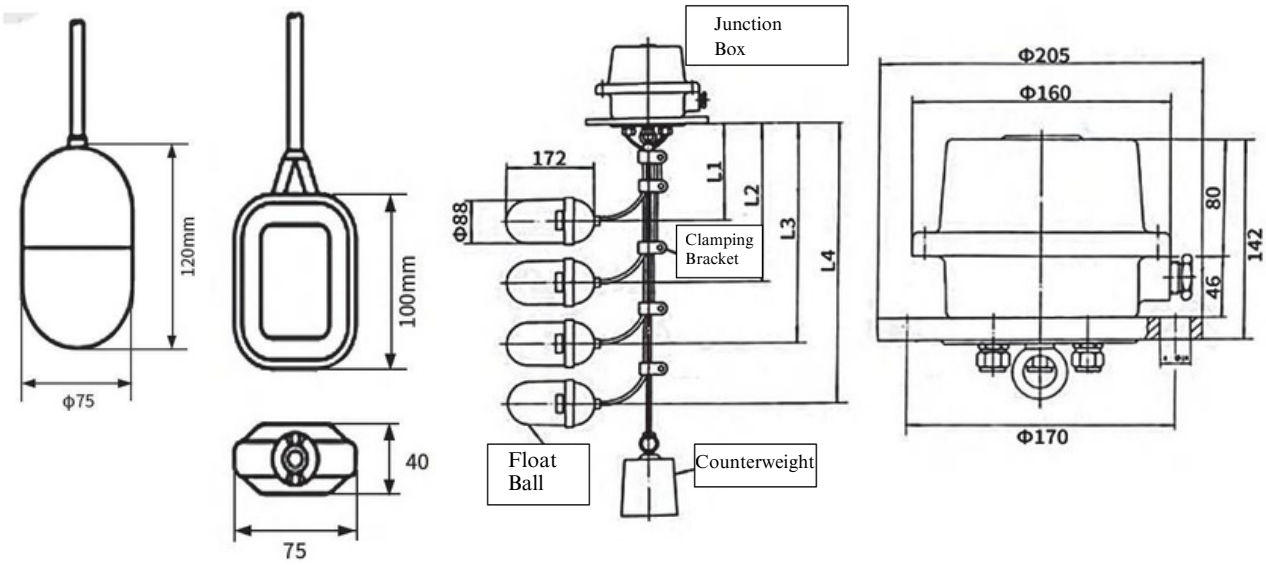
FQ40-1 Grouped Cable Float

FQ40-2 Grouped Cable Float

FQ41 Stainless steel cable float

FQ41 PP Cable Float

Outline Dimension Diagram (Reference)



Technical Specification

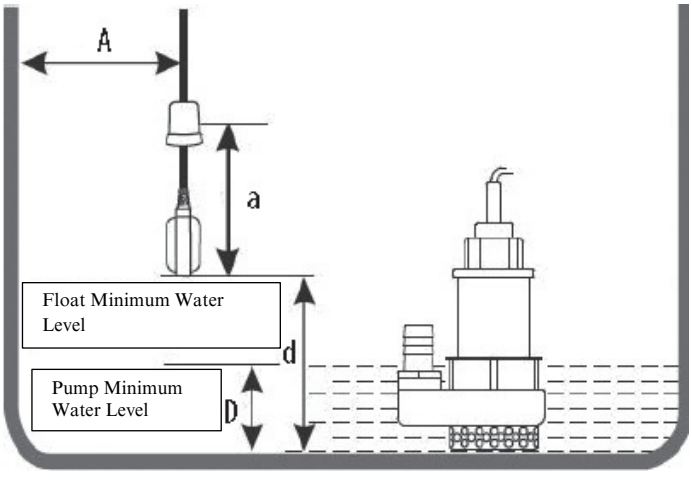
Contact Rating	10A/220V AC
Operating Temperature Range	(PP) medium freezing point ~80℃ (metal) medium freezing point ~180℃
Rated Current	10A
Conventional Thermal Current	10A
Mechanical Life	1 million t imes
Cable Length Options	3M, 5M, 10M, different lengths can be cu stomized

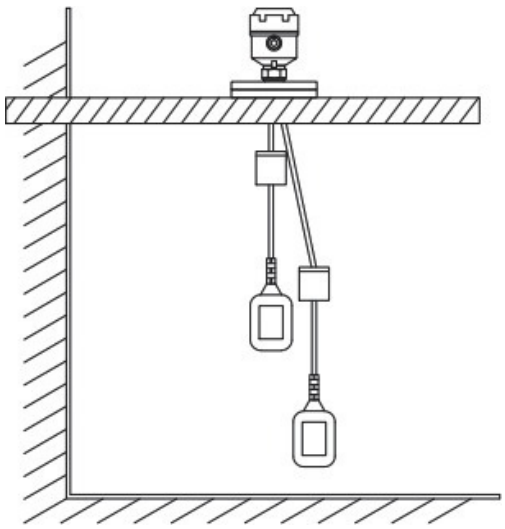
Installation precautions and application examples

Installation precautions:

1. The float action length "a" must be less than the distance "A" between the float and the wall, otherwise it will cause incorrect action.
2. The lowest water level controlled by the float must be greater than the low water level of the water pump to protect the water pump.
3. The float should be installed so that it is not too close to the pump port.
4. The float installation position should be kept at a certain distance from the water inlet to prevent water flow fluctuations from affecting the switch action.

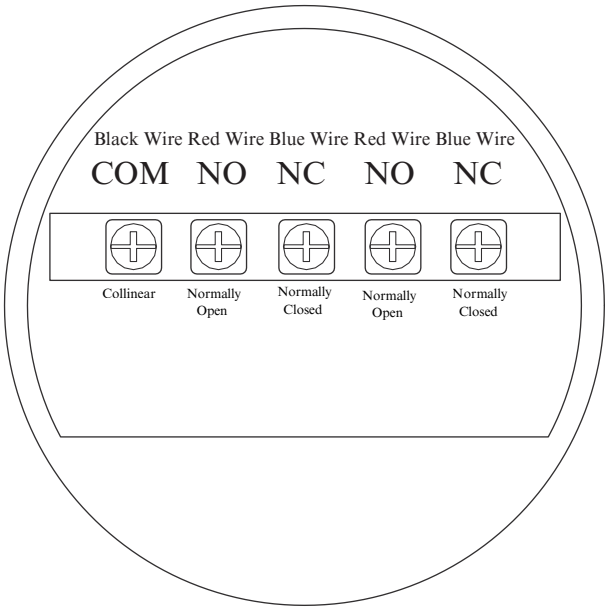
Installation application examples:

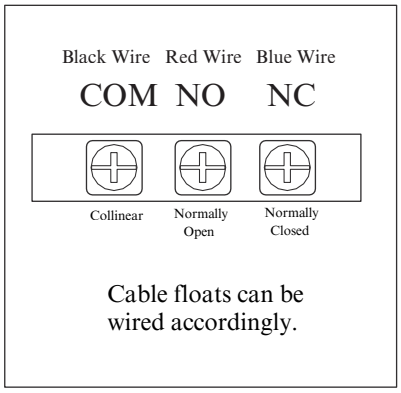




*Please consult our technical staff for special installation applications.

Electrical wiring diagra m





*Before installing the wiring, you can use a multimeter to measure the corresponding switch points.

Selection Chart

Model	Product Name
ISEN-FQ40/41	Cable float level switch

Code	Cable length
1	0~1m
2	0~2m
3	0~3m
4	0~4m
5	0~5m
6	0~6m
7	0~7m
X	Different lengths can be customized

	Code	Connection method
	F1	DN50 flange Connection
	F2	DN80 Flange Connection
	X	Special specifications can be customized

	Code	Temperature range
	N	0~80 ℃（PP）
	T	0~180 ℃ (stainless steel)

	Code	Float material
	P	PP material
	V	PVC material

Selection Chart （Continued）

	4	SUS304 stainless steel	
	6	SUS316 stainless steel	
		Code	Number of floats
		1	1
		2	2
		3	3
		……	N
		Code	Junction box
		L	Aluminum alloy
		P	PP material

Selection Example

Example: ISEN-FQ40-2F1T64AL, cable float, cable length 0~2m, DN50 flange connection, temperature range 0~180℃ (stainless steel), float material SUS316 stainless steel, float quantity 4, power supply220VAC, aluminum alloyjunction box. ISEN-FQ41-3F1NP1A, single PP cable float, cable length 0~3m, DN50 flange connection, temperature range 0~80℃ (PP), float material P, float quantity1, powersupply220VAC.

Website

WhatsApp

All your process control needs

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