



FLOAT SWITCHES
-WATER LEVEL SENSOR-

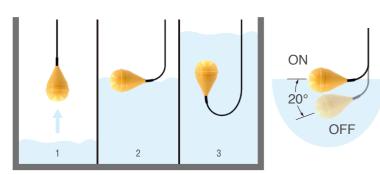
MT –Integrated Counterweight Float Switch–

MC -Ball Float Switch with Shock Absorber-

Structure

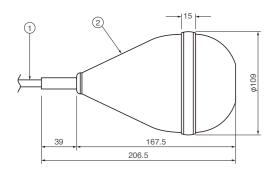


Float switch position (at different water level)



- 1. Water level rising 2. Float switch activates
- 3. As water level rises further, the float switch will overturn and remain submerged due to the integrated counterweight

Dimensions (mm)



No.	Components	Material
1	Cable	Chloroprene Rubber
2	Float	Polypropylene





Features

- Three watertight chambers, along with an integrated counterweight, enable the float switch to remain submerged with no external counterweight
- Freely suspended installation design facilitates easy float switch level adjustment
- Teardrop design prevents adhering of solids to the surface, assuring trouble-free operations even in highly-dense scum-filled wastewater
- Mercury-free float switch
- •Small operating angle (20°) provides a snap ON-OFF operation

Applications

- Automatic pumping for sewage treatment plant, wastewater pumping stations, etc
- •For sensing alert water levels like high water level or lower water level

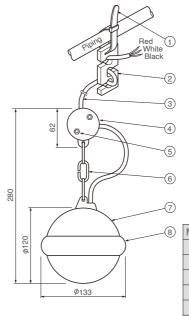
Specifications

Model		MT-1	
Electric characteristics		Max. 10(8)A 250V AC Resistive load amperage: 10A Inductive load amperage: 8A	
Switch type		Single pole double throw (SPDT)	
Mechanical	Proof pressure (static)	196kPa (2.0 kgf/cm²)	
characteristics	Working temperature range	0 to 50°C	
	Туре	H05 RN-F 3X1	
Cable	Cores x area	3 × 1mm²	
Cable	Outside diameter	7.5mm	
	Standard length	10m	
Weight		900g (Float only)	



Conductor color	In the air	Submerged	Contact	
Red-Black	off (open)	on (closed)	"a"(normally-open)	
Red-White	on (closed)	off (open)	"b"(normally-close)	
	Red C White B Black A	Red C White B Black A		

Dimensions (mm)



No.	Components	Material
1	Retaining belt	Nylon
2	Cable clamp	ABS Resin
3	Cable	PVC
4	Cable holder	ABS Resin
5	Screw and nut	304 Stainless Steel
6	Hanging chain	316 Stainless Steel
7	Float	ABS Resin
8	Shock absorber	ABS Resin



Features

- •Simple structure made of a ball float with a shock absorber wrapped around it
- Rugged construction withstanding impact from collision with the tank walls or piping
- Assures trouble-free operations in the water containing any types of suspended solids including scum-filled wastewater
- Switching ON and OFF can be made at steadier angle than mercury type float switches
- Contacts switchable, "a"(normally-open) or "b"(normally-close), at will

Applications

- Automatic pumping of the wastewater containing lots of scum and suspended solids
- •For sensing alert water levels like high water level or lower water level

Specifications

Model	MC-2	
Breaking capacity	50VA AC	
Max. current	2A AC	
Working voltage	30V AC	
Contact	C*	
Туре	Microswitch	
Proof pressure (static)	98kPa (1.0 kgf/cm²)	
Working temperature range	0 to 50°C	
Cores × area	$3\times0.75\text{mm}^2$	
Outside diameter	7.6mm	
Standard length	6, 10, 15, 20, 25, 30m	
	1,087g (Float only)	
	Breaking capacity Max. current Working voltage Contact Type Proof pressure (static) Working temperature range Cores × area Outside diameter	

*Usable either at contact "a"(normally-open) or contact "b"(normally-close).

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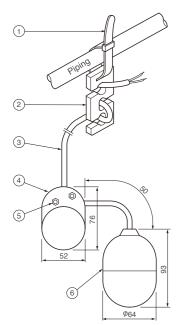
MF -Mini-float Switch-



Features

- •Float cut down to the smallest possible size
- Available in two types; contact "a"(normallyopen) and contact "b"(normally-close)
- •Ideal for a maximum/minimum water-level alert system
- Two floats usable in case the sensor is connected to the control panel for automatic pump operations

Dimensions (mm)



No.	Components	Material
1	Retaining belt	Nylon
2	Cable clamp	ABS Resin
3	Cable	CSPE
4	Intermediate weight	ABS Resin
5	Screw and nut	304 Stainless Steel
6	Float	ABS Resin

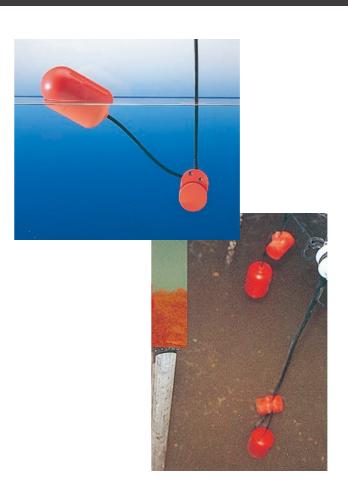
Applications

- Automatic pumping of water, wastewater, etc.
- •For sensing alert water levels like high water level or lower water level

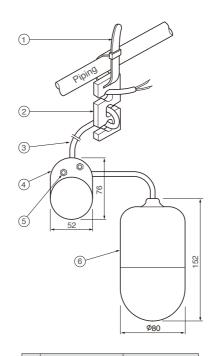
Specifications

Model		MF-3	
Item		MF-3A	MF-3B
	Breaking capacity	50VA AC	
Electric characteristics	Max. current	2A AC	
	Working voltage	30V AC	
Switch	Contact	"a"(normally-open)	"b"(normally-close)
OWILGIT	Туре	Microswitch	
Mechanical	Proof pressure (static)	98kPa (1.0 kgf/cm²)	
characteristics	Working temperature range	0 to 50°C	
	Cores × area	2 × 0.3mm ²	
Cable	Outside diameter	5.3mm	
	Standard length	6, 10, 15, 20, 25, 30m	
Weight		98g (Float only)	

RF -Snap-action Float Switch-



Dimensions (mm)



No.	Components	Material
1	Retaining belt	Nylon
2	Cable clamp	ABS Resin
3	Cable	CSPE
4	Intermediate weight	ABS Resin
5	Screw and nut	304 Stainless Steel
6	Float	ABS Resin



Features

- •Detecting cut-in and cut-out water levels with single float
- Snap ON-OFF action ensures stable operations in clean water, wastewater or liquids containing suspended matter or oil and fat
- Hanging length readily adjustable with cable clamp

Applications

- Automatic pumping of water, wastewater, etc.
- •For sensing alert water levels like high water level or lower water level

Specifications

Model Item Model		RF-5	
	Breaking capacity	50VA AC	
Electric characteristics	Max. current	2A AC	
	Working voltage	30V AC	
Switch	Contact	"a" (normally-open)	
OWITCH	Туре	Microswitch	
Mechanical	Proof pressure (static)	98kPa (1.0 kgf/cm²)	
characteristics	Working temperature range	0 to 50°C	
Level control		Min. 400mm, Max. 3,000mm	
	Cores x area	2 × 0.5mm ²	
Cable	Outside diameter	6.5mm	
	Standard length	6, 10, 15, 20, 25, 30m	
Weight		207g (Float only)	

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We reserve the right to change the specifications and designs without prior notice. The OO series and model OO are indicated with our series/model codes in this catalog.

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