



■ MF-5201

MF

Mini Float Level Switch

The working principle of Mini Float Level Switch is direct and simple. Set one point or multi-point of magnetic switch in sealed un-magnetic metal or industrial plastic tube. Fix the float with inner magnetic system to a certain place of magnetic switch in the pipe and let the float drift up and down; utilize the inner magnetic system in the float to trigger the open and close of magnetic switch to operate and control the liquid level. Normal open and close is the state with inserting liquid. Mini float level switch is custom-made product and the switch state can shift in normal condition. Mini float level switch is widely used in level control and alarm of all kinds of industry such as electronic, electric power, chemical, water treatment, water supply and drainage for its low price, reliable performance and flexible installation method.

Product Series



■ MF-31



■ MF-21



■ MF-21S



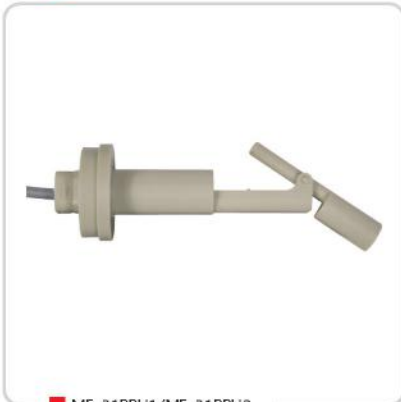
■ MF-31PPH



■ MF-31S



■ MF-31SH



■ MF-31PPH1/MF-31PPH2



■ MF-2801



■ MF-2801H 卫生型

Product Series



MF-2802



MF-2802-2



MF-2802S



MF-3801



MF-3802



MF-2802T



MF-4501



MF-4502



MF-5202



MF-5202SH

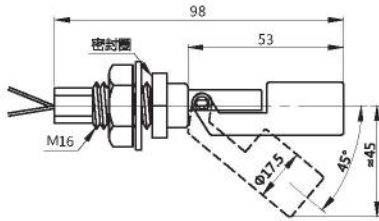


MF-P19

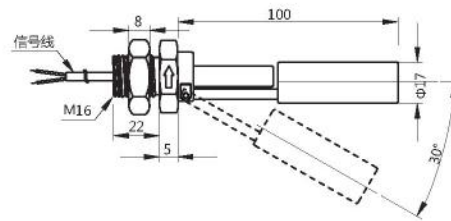


MF-P26

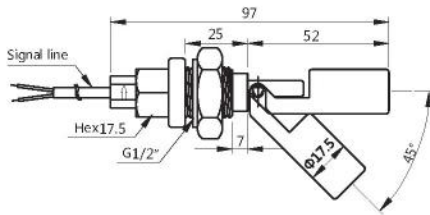
Product sizes and parameters



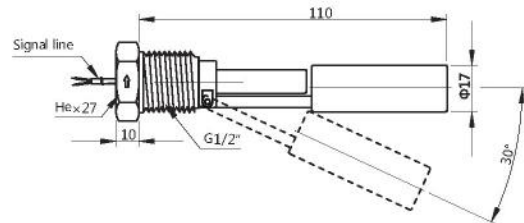
Model :	MF-21
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	0.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~80°C
Material :	PP
Way of installation :	Horizontal installation



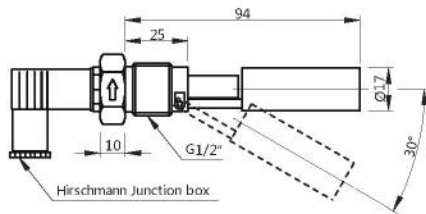
Model :	MF-21S
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~160°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation



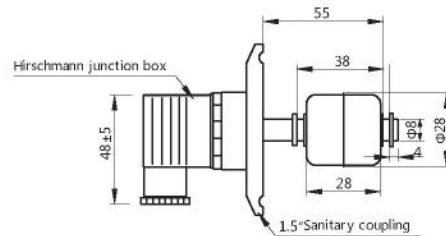
Model :	MF-31
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	0.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~80°C
Material :	PP
Way of installation :	Horizontal installation



Model :	MF-31S
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~160°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

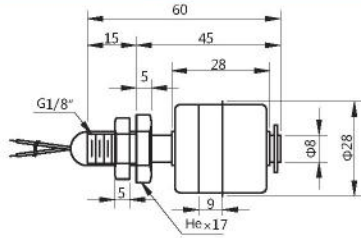


Model :	MF-31SH
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Entry cable :	Hirschmann junction box
Working temperature :	-20~90°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

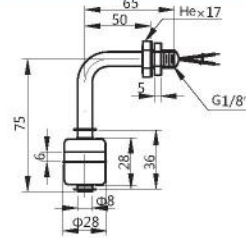


Model :	MF-2801H Sanitary type
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Entry cable :	Hirschmann junction box
Working temperature :	-20~90°C
Material :	SUS304 or SUS316
Way of installation :	Vertical installation

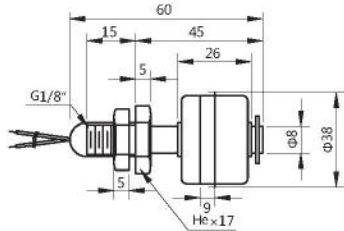
Product sizes and parameters



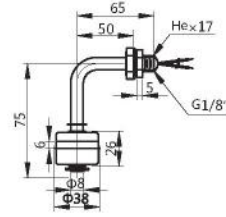
Model :	MF-2801
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Vertical installation



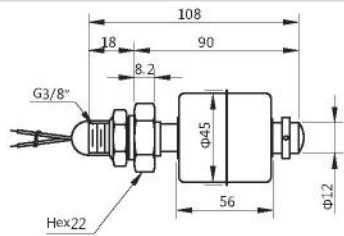
Model :	MF-2802
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation



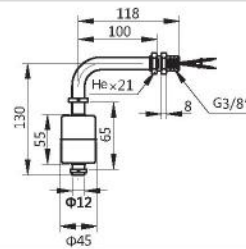
Model :	MF-3801
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	2.0MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Vertical installation



Model :	MF-3802
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	2.0MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

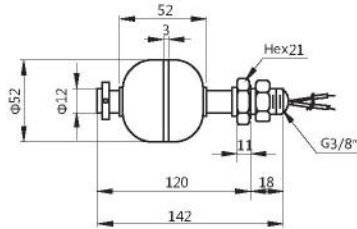


Model :	MF-4501
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	2.0MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Vertical installation

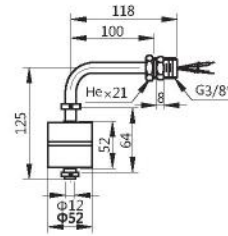


Model :	MF-4502
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200 AC240
Suggested usage :	DC24
Starting current :	0.7
Max current :	1A
Max pressure :	2.0MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

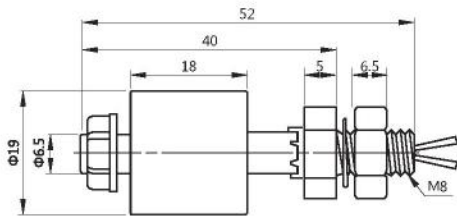
Product sizes and parameters



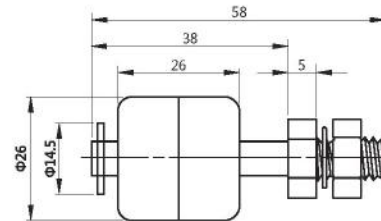
Model :	MF-5201
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	2 MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Vertical installation



Model :	MF-5202
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	2MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

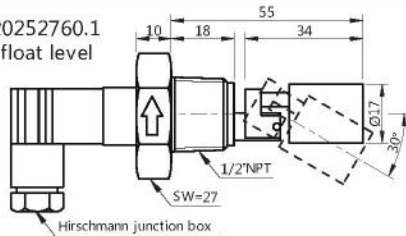


Model :	MF-P19
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	0.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~80°C
Material :	PP
Way of installation :	Vertical installation

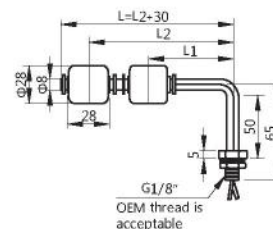


Model :	MF-P26
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	0.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~80°C
Material :	PP
Way of installation :	Vertical installation

Patent no.: 201520252760.1
Minimum density float level switch

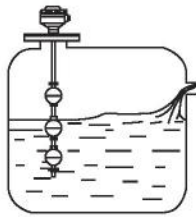


Model :	MF-31SM
Power :	DC50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	1.5MPa
Density :	0.3
Entry cable :	Hirschmann junction box
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

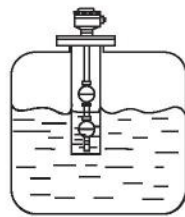


Model :	MF-2802-2
Power :	DC-50 (W) AC70 (VA)
Max voltage :	DC200V AC240V
Suggested usage :	DC24V
Starting current :	0.7A
Max current :	1A
Max pressure :	1.5MPa
Density :	0.7
Cable length :	OEM
Working temperature :	-20~130°C
Material :	SUS304 or SUS316
Way of installation :	Horizontal installation

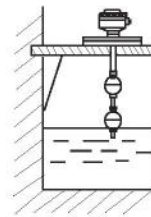
Installation Instruction



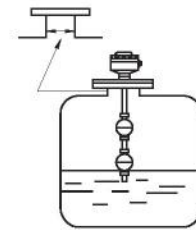
No.1



No.2



No.3



No.4

1. Installation location should be far from water inlet, otherwise the switch may wrongly operate for the vibration of water, as shown in diagram.
2. If the switch fixed in the area of concrete pool rim, it should add L type angle iron bracket, as shown in diagram 2.
3. If the switch fixed in the area of stirring, it is better to install wave cutter of wave cutter board, as shown in diagram 3.
4. The inner diameter of selected pipe should be larger than the diameter of contacting pipe to flange, as shown in diagram 4.
5. Suggest selecting multi-core cable wiring of 8mm diameter.
6. Load of controlled circuit must match contact capacity of flow switch.
7. The gravity of tested liquid must be larger than float's and it can't contain magnetic powder such as scrap iron.
8. The operation point of switch has been regulated before factory delivery according to the requirement of customer. Please do not regulate the place of float leisurely.

Protection of Contact Point

When the float switch is used in the inductive load circuit of motor, relay and solenoid coil, it is suggested to add shunt circuit to protect the two sides of the load, for example: relay, RC (buffer), rheostat and diode etc.

Note: Do NOT connect the flow switch with electromagnetic valve, motor and electromagnetic switch.

When the float switch is used in capacitive load circuit of capacitance, red-hot light, long cable, there is a upsurge current in contact of switch; it is suggested to add shunt circuit to protect the two sides of float switch, such as limit flow resistor or surge absorber .

$$C = \frac{I^2}{10} \text{ (uF)}$$

$$R = \frac{E}{101(1 + \frac{E}{50})}$$

