



SM

Side-Mounted Float Level Switch

SM Series Side-Mounted Float Level Switch is suitable for liquid level control of open or bearing pressure container in industrial process. When the liquid level reaches to high or low limit, relay contact point can be as signal alarm device or the switch in electronic pump circuit. It is used in water treatment, petrochemical, furnace, shipyard etc. It is widely applicable in the condition of high viscosity, high pressure, high temperature because of its flexible structure. It can replace the UQK series products.

Product Series



■ SM-10E-138



■ SM-10E



■ SM-20



■ SM-20L



■ SM-20T



■ SM-20S



■ UQK-02

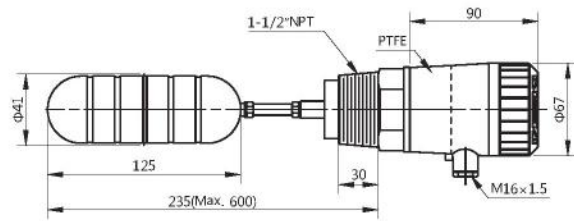
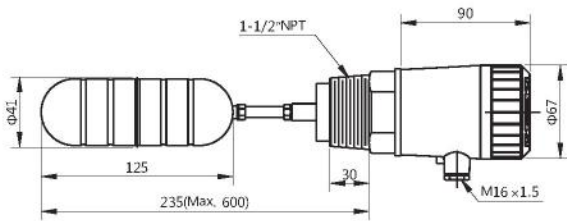


■ SM-30



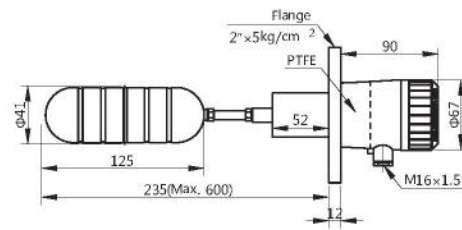
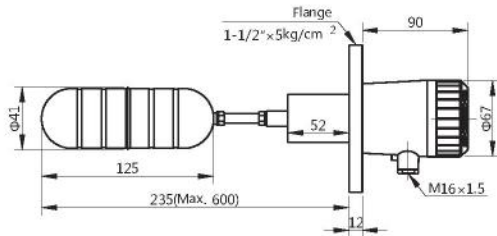
■ SM-30F

Product Dimensions & Parameters



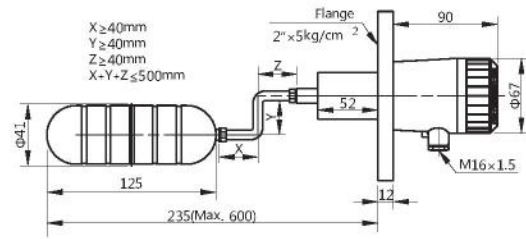
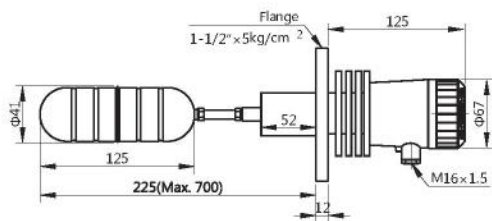
Model :	SM-10
Type :	Standard Thread Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	1-1/2"NPT(custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal

Model :	SM-10T
Type :	Mid-temp Thread Type
Material :	SUS304 or SUS316
Contact Capacity :	1.5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	1-1/2"NPT(custom-made)
Working Temp :	-30~200°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal



Model :	SM-20
Type :	Standard Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	1-1/2"×5kg/cm ² (custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal

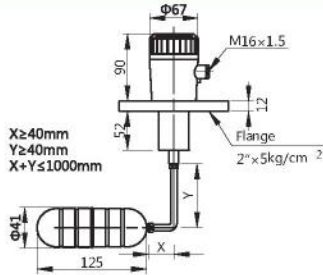
Model :	SM-20T
Type :	Mid-temp Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	1.5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	1-1/2"×5kg/cm ² (custom-made)
Working Temp :	-30~200°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal



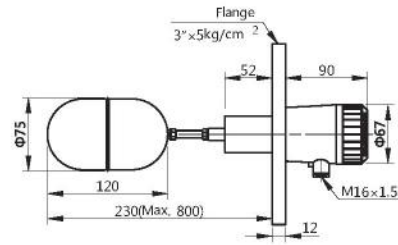
Model :	SM-20HT
Type :	High-temp Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	2"×5kg/cm ² (custom-made)
Working Temp :	-30~300°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal

Model :	SM-20Z
Type :	Z Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	2"×5kg/cm ² (custom-made)
Working Temp :	-30~130°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal

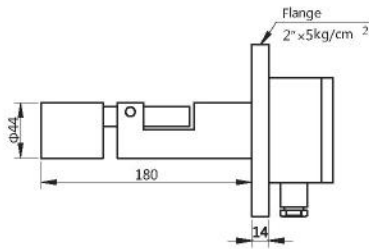
Product Dimensions & Parameters



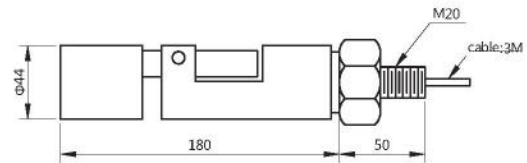
Model :	SM-20L
Type :	Vertical Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	2"×5kg/cm ² (custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Vertical



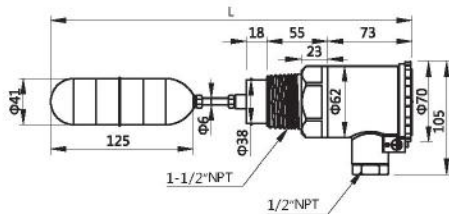
Model :	SM-20B
Type :	Standard Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	3"×5kg/cm ² (custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal



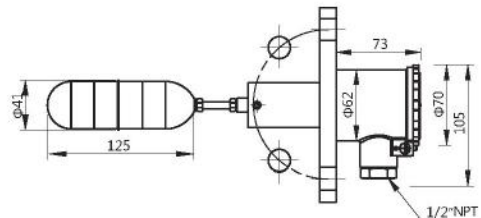
Model :	SM-30F
Type :	Corrosion-proof Flange Type
Material :	PP or PVDF
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	2"×5kg/cm ² (custom-made)
Working Temp :	PP-30~85°C PVDF-30~160°C
Suitable Gravity :	0.6g/cm ³
Installation Method :	Horizontal



Model :	SM-30
Type :	Corrosion-proof Thread Type
Material :	PP or PVDF
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	AL alloy baking IP65
Connection :	M20×1.5(custom-made)
Working Temp :	PP-30~85°C PVDF-30~160°C
Suitable Gravity :	0.6g/cm ³
Installation Method :	Horizontal



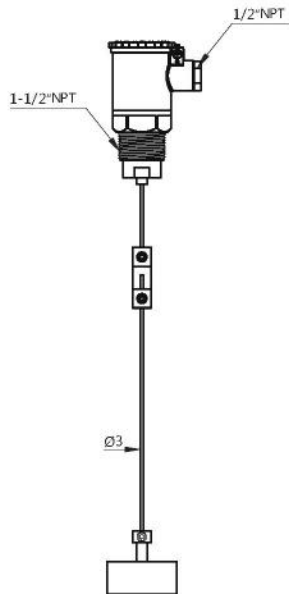
Model :	SM-10E
Type :	Explosion-proof Thread Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	Stainless steel explosion-proof IP65
Connection :	1-1/2"(custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal
Explosion Proof	ExdIICT6



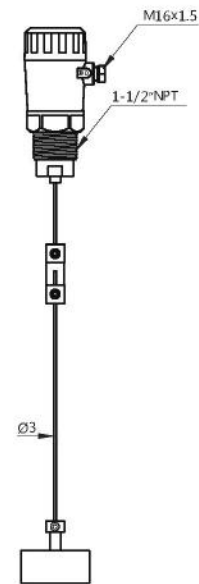
Model :	SM-20E
Type :	Explosion-proof Flange Type
Material :	SUS304 or SUS316
Contact Capacity :	5A/250VAC
Contact Way :	One set SPDT
Junction Box :	Stainless steel explosion-proof IP65
Connection :	1-1/2"×5kg/cm ² (custom-made)
Working Temp :	-30~85°C
Suitable Gravity :	0.55g/cm ³
Installation Method :	Horizontal
Explosion Proof	ExdIICT6

Product Structure

Patent No. : 201520252758.4
Hard floating roof flexible limit switch



Patent No. : 201520252758.4
Hard floating roof flexible limit switch



Model :	SM-10EF	Model :	SM-10F
Type :	Explosion-proof Thread Type	Type :	Standard Thread Type
Material :	SUS304 or SUS316	Material :	SUS304 or SUS316
Contact Capacity :	1A/250VAC	Contact Capacity :	1A/250VAC
Contact Way :	One set SPDT	Contact Way :	One set SPDT
Junction Box :	Stainless steel explosion-proof IP65	Junction Box :	AL alloy baking IP65
Connection :	1-1/2"(custom-made)	Connection :	1-1/2"(custom-made)
Working Temp :	-30~300°C (Range Optional)	Working Temp :	-30~300°C (Range Optional)
Ambient temperature :	-30~70°C	Ambient temperature :	-30~70°C
Installation Method :	Vertical	Installation Method :	Vertical

Working Principle

To use of liquid buoyancy principle. When the floating ball due to buoyancy and moving up and down, the magnetic reed switch in the junction box will be action when it is influence by the arm end magnetic . The same principle is used in the micro switch device. To use of magnets and magnet micro switch arm end of mutual exclusion movement to push the micro switch action.

Product Purpose

SM Series Float Level Switch is suitable for liquid level control of open or bearing pressure container in industrial process. When the liquid level reaches to high or low limit, relay contact point can be as signal alarm device or the switch in electronic pump circuit.

Selection table

Side mounted level switch

10 : thread; 10T : nomal temperature thread; 10E : thread&explosion-proof; 10F : top mounted thread; 20 : flange ;
10EF : top mounted thread explosion-proof ; 20T : nomal temperature flange; 20HT : high temperature flange;
20Z : flange with Z probe; 20L : flange with L probe; 20B : flange with high viscosity; 20E : flange with explosion-proof;
30 : thread with anti-corrosion; 30F : flange with anti-corrosion;

Product series

Structure

SM

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