

Capacitance Level Switch



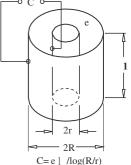


4 OPERATING PRINCIPLE

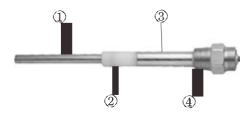
The Fine-tek Capacitance Switch for liquids and solids can be used in mediums such as liquids, pastes, syrups, powders, granules, flakes and chips. It's broad application and rugged build makes it a highly versatile across all industries.

Capacitance switches rely on electrical capacitance theory (the ability of a medium to store electrical energy). When an electrical circuit has two separated conductive plates, the space between the plates acts as a capacitor and stores the electrical energy. Mediums have differing conductivity and dielectric constants which affects their energy s storage capability. When the switch comes into contact with the medium, it can detect a change in the surroundings and this actuates the switch accordingly.

Materials with high conductivity or high dielectric constants such as water tend to have high capacitance. The opposite applies for low conductive substances such as popcorn, wax or air. Thus the switch works well in mediums with reasonably high dielectric constants or conductive solutions.



4 CONSTRUCTION



- 1. Probe : SUS304 or SUS316
- 2. Insulation : UPE or PTFE
- 3. Grounding Sleeve : SUS304 or SUS316
- 4. Connection : SUS304 or SUS316
 - 1"PT (default) or 3/4"PT(option)

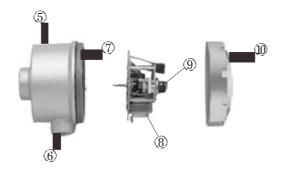
4 FEATURES AND APPLICATIONS

As Capacitance Level Switch has no moving parts inside the device, it will not be affected by friction. It is suitable for powder or liquid application easy to install. The customer can choose the types for his requirements.

- 1. Standard Type (SA110 & SA111 A/B/C) Suitable for general use.
- 2. **Hi-Temp Type (SA120 & SA128 A/B/C)** Suitable for high temperature environment.
- 3. Anti-Corrosion Type (SA130 & SA132 A/B/C) Suitable for corrosive environment.
- 4. Remote Probe Type (SA140 A/B/C) For use with vibrator equipped with tank.
- 5. Wire-Probe Type (SA150 A/B/C) Suitable for silo or large-size tank.
- Plate-Probe Type (SA160 A/B/C) Suitable for granules and at lower position of tank side.
- 7. Explosion-Proof Type (SA270 ~ SA279) Ex dia II C T4~T6, DIP A21 T_A,T3~T6
- Explosion-Proof Type (SA370 ~ SA378)
 Ex ia IIC T3~T6
 Equipped with SA-75U signal conditioner can be

used in hazardous areas.

 Anti-Static Type (SA180 & SA181 A/B/C) Suitable for electrostatic environment (It won't be damaged by the electrostatic discharge)



- 5. Housing : ADC-12 Aluminum IP65
- 6. Conduit opening : 1/2"PF or 3/4"PF
- 7. O-RING: NBR
- 8. PC board : A, B, C, D Type
- 9. Sensitivity adjustment : 10pf (std.), 20pf, 40pf
- 10.Cover : ADC-12 Aluminum



STANDARD MODEL

Dimensions	f118 1/2"PF 1"PT 25 302 50 150(L) f27	f118 1/2"PF 1/2"PF f21.7 f21.7 f12.7 f12.7 f12.7	f118 f118 f21.7 f1/2"PF f88 f21.7 f12.7 f12.7
Order No.	[STANDARD MODEL] SA110 A/B/C	[STANDARD MODEL] SA111 A/B/C	[HI-TEMP. MODEL] SA120 A/B/C
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~80BC	-20BC~200BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	SUS 304/316	SUS 304/316
Insulated material	UPE	UPE	PEEK
Connection	1"PT Screw (SUS)	1"PT Screw (SUS)	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 1.9kg	Approx. 1.9kg	Approx. 2.4kg
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Delay time	0~6 sec		
Power consumption	2W		
Output rating	Relay: 5A/250Vac/30Vdc,NPN 100mA		



Dimensions	f 118 f 118 f 12"PF 1/2"PF 145 145 14 620 4. f 15 55 330(L) f 28	f118 f140 1/2"PF f140 105 4-f19 pp f140 255 413 255 413 255 413	f118 f140 f140 f140 f140 f140 f140 f140 f140
Order No.	[SUPER HI-TEMP. MODEL] SA128 A/B/C	[CORROSION-PROOF MODEL] SA130 A/B/C	[CORPOSION-PROOF MODEL] SA132 A/B/C
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~800BC	-20BC~80BC	-20BC~120BC
Operation pressure	ATM	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	SUS 304 Coating PP	SUS304 Coating PVDF
Insulated material	CERAMIC	UPE	UPE
Connection	2-1/ 2"x5kg/cm ² Flange(SUS)	1-1/2"x10kg/cm ² Flange(PP)	1-1/2"x10kg/cm ² Flange(SUS) (5mm PVDF)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 6.5kg	Approx. 2kg	
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Delay time	0~6 sec		
Power consumption	2W		
Output rating	Relay: 5A/250Vac/30Vdc,NPN 100mA		

Dimensions	d. = 77 Max.:5m 112 112 195 195 195 195 195 195 195 195 250(L) Material UPE 120 195 12 195 250(L)	f118 f118 f21.7 S0 Material UPE 3m(L) f9 d 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 M8 150 150 150 150 150 150 150 150	Material UPE f75 f96 f155 f118 f118 f118 f118 f118 f118 f118 f119 f118 f120
Order No.	[REMOTE PROBE MODEL] SA140 A/B/C	[WIRE-PROBE MODEL] SA150 A/B/C	[PLATE MODEL] SA160 A/B/C
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~80BC	-20BC~80BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	SUS 304/316 cable	SUS 304/316
Insulated material	UPE	UPE	UPE
Connection	1"PT Screw (SUS)	1"PT Screw (SUS)	2-1/2"x 5kg/cm ² Flange (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 3kg	Approx. 4.1kg	Approx. 3.2kg
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Delay time	0~6 sec		
Power consumption	2W		
Output rating	Relay: 5A/250Vac/30Vdc,NPN 100mA		



Dimensions	f118 f118 f21 f21 f21 f21 f21 f21 f21 f21	f118 f88 f88 f88 f88 f88 f88 f88 f88 f88	
Order No.	[ANTI-STATIC MODEL] SA180 A/B/C	[HI-TEMP. ANTI-STATIC MODEL] SA181 A/B/C	
Ambient temp.	-20BC~60BC	-20BC~60BC	
Operating temp.	-20BC~80BC	-20BC~200BC	
Operation pressure	20kg/cm ²	20kg/cm ²	
Probe material	UPE Coating	PTFE Coating	
Insulated material	UPE	PTFE	
Connection	1"PT Screw (SUS)	1"PT Screw (SUS)	
Sensitivity range	10pF (std.)	10pF (std.)	
Weight	Approx. 2kg	Approx. 2.5kg	
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Delay time	0~6 sec		
Power consumption	2W		
Output rating	Relay: 5A/250Vac/	Relay: 5A/250Vac/30Vdc,NPN 100mA	



Dimensions	584 1/2"PF	1/2"PF	
Order No.	[MULTI-FUNCTION MODEL] SA190 R/N	[MULTI-FUNCTION MODEL] SA195 R/N	
Ambient temp.	-20BC~60BC	-20BC~60BC	
Operating temp.	-20BC~80BC	-20BC~80BC	
Operation pressure	25kg/cm ²	25kg/cm ²	
Probe material	PP (SA190 R/N) POM (SA190R-M/ SA190N-M)	SUS 304/316 cable	
Insulated material			
Connection	1"PT Screw	1"PT Screw	
Sensitivity range	10pF (std.)	10pF (std.)	
Weight	Approx. 0.8kg	Approx. 0.8kg	
Housing spec.	Aluminum IP65		
Supply voltage	20~250Vac/dc, 50/60 Hz		
Delay time	0~6 sec		
Power consumption	2W		
Output rating	R: Relay SPDT,5A/250Vac/30Vdc N: MOSFET 400mA/ 60Vac/dc		



EXPLOSION PROOF MODEL

Dimensions	1/2"NPT 1/2"NPT 1"PT 108 108 108 108 108 108 108 108	1/2"NPT 1/2"NPT 1/2"NPT 108 108 108 108 402 402 402 402 1250(L) 120 120 120 120 120 120 120 120	1/2"NPT 1/2"NPT 1/2"NPT 108 108 108 60 60 108 60 60 60 60 60 60 60 60 60 60
Order No.	[STANDARD MODEL] SA270	[STANDARD MODEL] SA271	[STANDARD MODEL] SA272
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~80BC	-20BC~200BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	SUS 304/316	SUS 304/316
Insulated material	UPE	UPE	PEEK
Connection	1"PT Screw (SUS)	1"PT Screw (SUS)	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 1.9kg	Approx. 1.9kg Approx. 2.4kg Approx. 4.1kg	
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Enclosure protection	Ex dia II C T4~T6, DIP A21 T _A , T3~T6		
Power consumption	2W		
Output rating	Relay: 3A/250Vac/30Vdc,NPN 100mA		



EXPLOSION PROOF MODEL

Dimensions	1/2"NPT 108105255105	1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108	1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108
Order No.	[CORROSION-PROOF MODEL] SA273	[CORROSION-PROOF MODEL] SA274	[WIRE-PROBE MODEL] SA275
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~120BC	-20BC~80BC
Operation pressure	ATM	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316(PP Coating)	SUS 304/316	SUS 304/316 Cable
Insulated material	UPE	UPE	PTFE
Connection	1-1/2"x10kg/cm ² (PP)	1-1/2"x10kg/cm² (SUS) W / 5mm PVDF Cushion	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 1.9kg		Approx. 4.1kg
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Enclosure protection	Ex dia II C T4~T6, DIP A21 T _A , T3~T6		
Power consumption	2W		
Output rating	Relay: 3A/250Vac/30Vdc,NPN 100mA		nA



EXPLOSION PROOF MODEL

Dimensions	Material UPE f 75 f 96 f 155 f 1113 f 113 f 113	1/2"NPT 1/2"NPT 108 108 108 108 108 108 472 260~1500(Max.) Material PTFE f21 Max.180	1/2"NPT
Order No.	[PLATE MODEL] SA276	[HI-TEMP ANTI-STATIC MODEL] SA277	[ANTI-STATIC MODEL] SA278
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~200BC	-20BC~80BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	PTFE Coating	UPE Coating
Insulated material	UPE	PTFE	UPE
Connection	2-1/2"x 5kg/cm ² Flange (SUS)	1"PT Screw (SUS)	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF(std.)
Weight	Approx. 3.2kg	Approx. 3.1kg	Approx. 2kg
Housing spec.	Aluminum IP65		
Supply voltage	110/220VacK10% or 16~24Vdc		
Enclosure protection	Ex dia II C T4~T6, DIP A21 T _A , T3~T6		
Power consumption	2W		
Output rating	Relay: 3A/250Vac/30Vdc,NPN 100mA		



INTRINSICALLY SAFE MODEL

Dimensions	1/2"NPT	1/2"NPT 1/2"NPT 108 108 108 108 108 402 402 402 402 402 120 120 120 120 120 120 120 1	1/2"NPT 1/2"NPT 108 108 108 108 60 60 462 f21.7 462 f21.7 50 250(L) f12.7 f12.7 f12.7
Order No.	[STANDARD MODEL] SA370(WITH SA-75U)	[STANDARD MODEL] SA371(WITH SA-75U)	[HI-TEMP. MODEL] SA372(WITH SA-75U)
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~80BC	-20BC~200BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316	SUS 304/316	SUS 304/316
Insulated material	UPE	UPE	PEEK
Connection	1"PT Screw (SUS)	1"PT Screw (SUS)	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 1.9kg	Approx. 1.9kg Approx. 2.4kg Approx. 2.4kg	
Housing spec.	Aluminum IP65		
Supply voltage	16~24Vdc		
Enclosure protection	Ex ia IIC T3~T6		
Power consumption	2W		
Output rating	NPN 100mA		



INTRINSICALLY SAFE MODEL

Dimensions	1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108	1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108	1/2"NPT 1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108
Order No.	[CORROSION-PROOF MODEL] SA373(WITH SA-75U)	[CORROSION-PROOF MODEL] SA374(WITH SA-75U)	[WIRE-PROBE MODEL] SA375(WITH SA-75U)
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~120BC	-20BC~80BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
Probe material	SUS 304/316(PP Coating)	SUS 304/316	SUS 304/316 Cable
Insulated material	PTFE or UPE	UPE	UPE
Connection	1-1/2"x10kg/cm ² (PP)	1-1/2"x10kg/cm ² (SUS) W / 5 mm PVDF Cushion	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 1.9kg		Approx. 4.1kg
Housing spec.	Aluminum IP65		
Supply voltage	16~24Vdc		
Delay time	Ex ia IIC T3~T6		
Power consumption	2W		
Output rating		NPN 100mA	



INTRINSICALLY SAFE MODEL

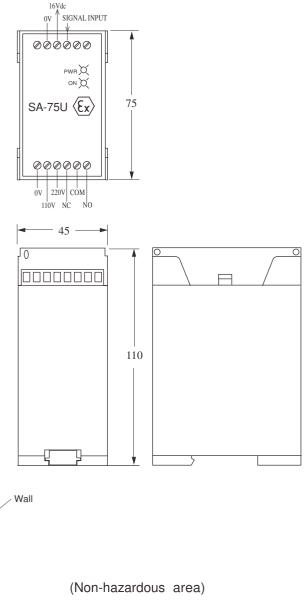
Dimensions	Material UPE f 75 f 96 f 155 f 113 f 113	1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108	1/2"NPT 1/2"NPT 1/2"NPT 108 108 108 108 108 108 108 108
Order No.	[PLATE MODEL] SA376(WITH SA-75U)	[HI-TEMP. ANSI-STATIC MODEL] SA377(WITH SA-75U)	[ANTI-STATIC MODEL] SA378(WITH SA-75U)
Ambient temp.	-20BC~60BC	-20BC~60BC	-20BC~60BC
Operating temp.	-20BC~80BC	-20BC~200BC	-20BC~80BC
Operation pressure	20kg/cm ²	20kg/cm ²	20kg/cm ²
material	SUS 304/316	PTFE	UPE Coating
Insulated material	UPE	PTFE	UPE
Connection	2-1/2"x 5kg/cm ² Flange (SUS)	1"PT Screw (SUS)	1"PT Screw (SUS)
Sensitivity range	10pF (std.)	10pF (std.)	10pF (std.)
Weight	Approx. 3.2kg	Approx. 3.1kg	Approx. 2kg
Housing spec.	Aluminum IP65		
Supply voltage	16~24Vdc		
Delay time	Ex ia IIC T3~T6		
Power consumption	2W		
Output rating	NPN 100mA		



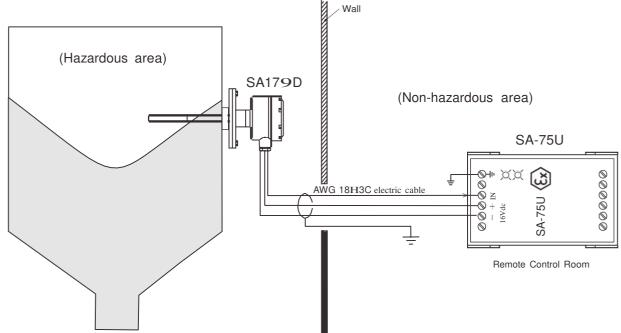
SA-75U INTRINSIC SAFE SIGNAL CONDITIONER

SA-75U Zener barriers inside provide intrinsic safety to SA379 molel level switch. The unit works uses a current-limiting feature protecting the device from power surges, sparks and other electrical damage.

1. Supply voltage :	110/220VacK3%
2. Power consumption :	2W
3. Input signal :	NPN transistor resistance Ri= 500W
4. Output voltage :	16 Vdc
5. Short circuit current :	25mA max.
6. Relay output :	SPDT 10A /30Vdc 10A /220Vac
7. Operating temp. :	-20BC ~ 60BC
8. Weight :	0.3 kg
9. Enclosure rating :	Ex (ia) IIC T6



4 WIRING CONFIGURATION





QUICK CALIBRATION

- 1.Turn the "SENSITIVITY" to the "H" position.
- 2.Place a flat screw driver in the "Coarse" coarse hole, turn clockwise until INDICATOR turns on. Check whether "Indicator" light is on or not by turning the "Sensitivity Adj" knob again.
- 3.If not, repeat procedure.

SENSITIVITY ADJUSTMENT

- 1. Initially, the "Indicator" LED will turn off when the tank's material doesn't contact the probe.
- 2. When making contact with the probe, it will turn on. As soon as LED turns on, adjust the " SENSITIVITY " until the light turns off. Turn the knob " SENSITIVITY " to the middle position between where it turned off and "H"

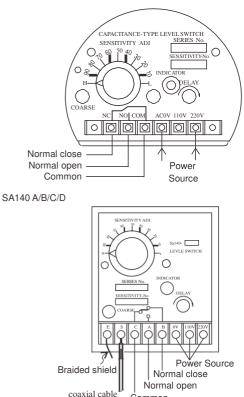
DELAY FUNCTION CALIBRATION

The default setting is 0 second when material comes into contact with the probe (Indicator ON)

For setting the delay function, turn the screw clockwise. The further clockwise, the longer the delay. The delay function is suitable for mediums with agitators, splashing or level turbulence in the tank.

PANEL DESCRIPTION

SA110,120,130,150,160,180,270,370 A/B/C/D



Common

△ C=120 ~ 135

SA190 CALIBRATION

- 1. Set sensitivity OFF(Figure 2).
- 2. Turn COARSE until red SIGNAL LED turns on.
- 3. Set sensitivity ON (90%) in dip switch 1(Figure 3). The LED indicator will turn off with no signal output.
- 4. Set sensitivity to the OFF position again. LED indicator will turn on again and complete the calibration procedure.



Figure 2

Figure 1

Figure 3

Sensitivity Adjustment

Sensitivity	4 Step DIP Switch				
Adjustment	(1)	(2)	(3)	(4)	Adjust Mode
1P	•				Switch (1) ON ; Switch (2+3+4) OFF
2P		٠			Switch (2) ON ; Switch (1+3+4) OFF
3P			٠		Switch (3) ON ; Switch (1+2+4) OFF
4P				•	Switch (4) ON ; Switch (1+2+3) OFF
5P		٠	٠		Switch (2+3) ON ; Switch (1+4) OFF
6P	٠	٠	٠		Switch (1+2+3) ON ; Switch (4) OFF
7P			٠	•	Switch (3+4) ON ; Switch (1+2) OFF
8P	•		•	•	Switch (1+3+4) ON ; Switch (2) OFF
9P		٠	٠	•	Switch (2+3+4) ON ; Switch (1) OFF
10P	٠	٠	٠	•	Switch (1+2+3+4) ON

HIGH LEVEL FAILSAFE ALARM:

When the medium has no contact with the probe, the green LED lights up and relay output COM/NC is in an open state.

When the medium level reaches high level and it touches the probe (or in the case of blackout), the green LED turns off and the relay output COM/NC is closed. When the relay output COM/NC is closed, it implies the FSH alarm has been activated.

LOW LEVEL FAILSAFE ALARM:

When the medium touches the probe the green LED lights up and the relay output COM/NC is in an open state.

When the medium level drops below the low level and the medium does not have contact with the probe (or in the case of blackouts), the green LED turns off and relay output COM/NC is closed.

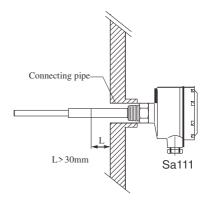
When relay output COM/NC is closed, it implies the FSL alarm has been activated.

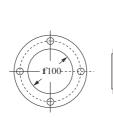
Time Delay:

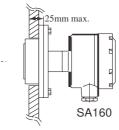
- 1. Time delay allows the level switch to change state with range from 0~6 seconds.
- 2. Turn time delay knob clockwise to increase the delay



INSTALLATION NOTICE

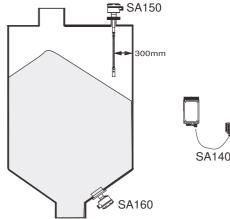






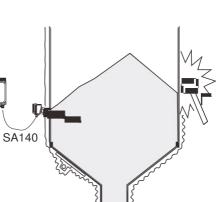
The insulation part should be mounted to protrude 30mm from the vessel wall. SA160 should be mounted as above.

To prevent false readings,check the flow pattern (angle a) of the material and place the probe in the appro-priate location.

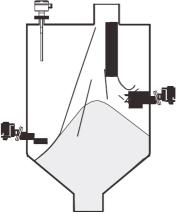


If the probe is mounted on the top, make sure the length of probe long enough to touch the highest level of medium.

The SA160 MODEL is usually installed at the lower wall of the tank.



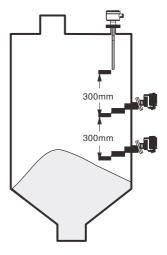
For Non-Stationary or vibrating environment, a separate control unit such as the SA140 is suggested.



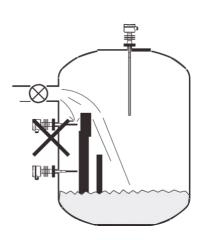
It is suggested to install the probe away from the inlet to reduce the risk of inflowing material damaging the probe. If the probe is near an inlet, it is recommended to place a protective cover 200mm above the probe. The cover should be parallel to the probe and the same length.



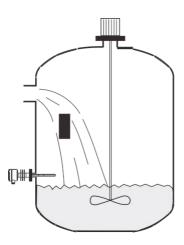
INSTALLATION NOTICE



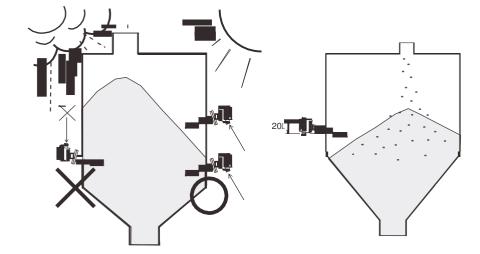
If two parallel probes are mounted, they must be installed separately at least 300 mm to minimize interference.



The probe should not be mounted underneath a liquid inlet, otherwise it will switch on erroneously.

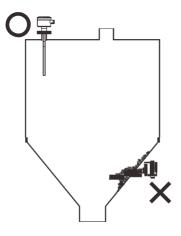


If the tank equips with agitator, please use the time-delay type to prevent fault level detection.



The cable inlet should face downward to avoid rain damage. Tighten the cable with the connecting part.

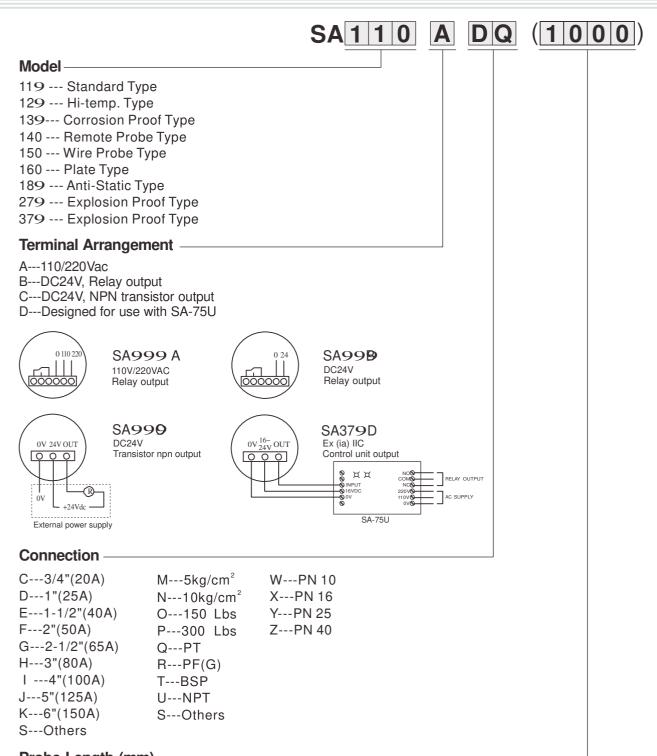
Mounting the probe at a 20^B incline will optimize the results and increase sensitivity. It also won't be damaged by the inflowing material.



Mounting the probe at top of tank can avoid material bridges from forming. It's helpful to record accurate measurements.



ORDER INFORMATION



Probe Length (mm) -

*Tolerance of the total product length is K5mm.

Characteristics, specifications and dimensions are subject to change without notice.Please contact your nearest distributor office for further informations.



ORDER INFORMATION

		SA 190 R - P DQ
Supply Voltage &	Output Rating	
R: 20~250, 50/60H; N: 20~250, 50/60H;		
Probe Material —		
P: PP M: POM		
Connection —		
D: 1" (25A)	Q: PT	

*Tolerance of the total product length is K5mm.

* Characteristics, specifications and dimensions are subject to change without notice.

*Please contact your nearest distributor office for further informations.

U: NPT



EXAMPLES- IF-TANK-M JUNTING

[FC/FD]	Mini Float/Magnetic Float Level Switch						
[FG]	Magnetic Float Level Transmitter						
[FF]	Side Mounting Float Switch						
[FA/FB]	Cable Float Level Switch	[EG] [EB] [FG] [JFR] [FC/FD]					
[SP]	Thermal Dispersion Flow Switch						
[SF]	Paddle Flow Switch						
[SD]	Optical Level Switch						
[SE]	Rotary Paddle Level Switch	[SA]					
[SA]	Capacitance Level Switch	(FF)					
[EC]	Pressure Level Transmitter						
[LR]	Loop Power Indicator						
[SC]	Vibrating Probe Level Switch						
[SC]	Tuning Fork Level Switch	[SD] [FC/FD] [SP]					
[EB]	RF-Capacitance Level Transmitter						
[SB]	RF-Capacitance / Admittance Level Switch	[EA] [PB/PM]					
[EG]	Magnetostrictive Level Transmitter						
[EF]	By-Pass Level Transmitter	[SB] [SE] [SC] [JFR] [EB]					
[MEF]	Mini By-Pass Level Transmitter	一致火 建雪 千紫 致死					
[EA]	Ultrasonic Level Transmitter						
[JFR]	FMCW Radar Level Transmitter						
[EE]	Electromechanical Level Measuring System						
[ED]							
[SRT/SRS]							
[onnono]	Safety Cable Pull Switch						
[PB/PM]	Microprocessor Based Bargraphic Display Scaling Mete	ar and a second s					
[BRD/AE]	Valve and Controller for Dust Collector System	[BAS/ BVR/BVT]					
	[BAS/BAH/BVP] Air Hammer						
[BVK/BVR/BVT] Pneumatic Vibrator							



Distributor:

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