



Capacitance Level Switch



Sensorsystem®
Innovative Sensors & Controls for Automation

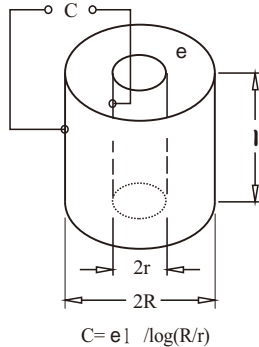
PRODUCT INTRODUCTION

■ OPERATING PRINCIPLE

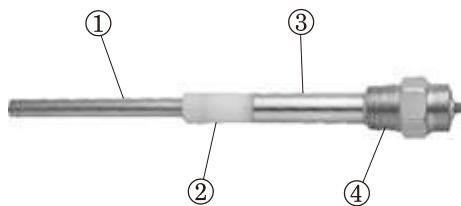
The Fine-tek Capacitance Switch for liquids and solids can be used in mediums such as liquids, pastes, syrups, powders, granules, flakes and chips. It's broad application and rugged build makes it a highly versatile across all industries.

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.



■ CONSTRUCTION

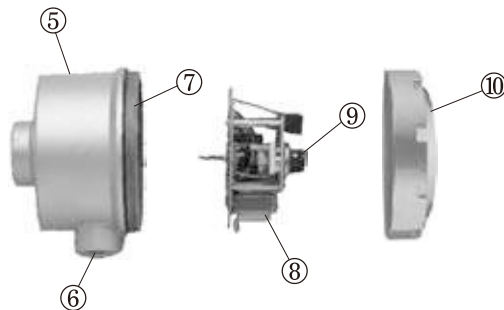


1. Probe : SUS304 or SUS316
2. Insulation : UPE or PTFE
3. Grounding Sleeve : SUS304 or SUS316
4. Connection : SUS304 or SUS316
1"PT (default) or 3/4"PT(option)

■ FEATURES AND APPLICATIONS

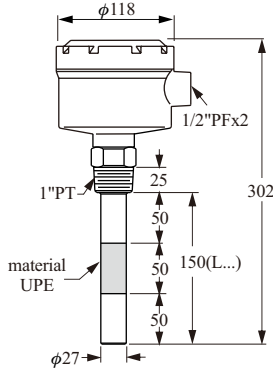
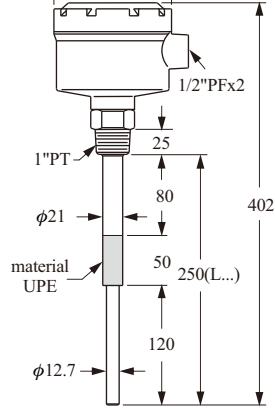
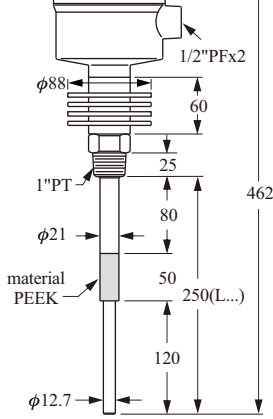
As Capacitance Level Switch has no moving parts inside the device, it will not be affected by friction. It is suitable for powder or liquid application easy to install. The customer can choose the types for his requirements.

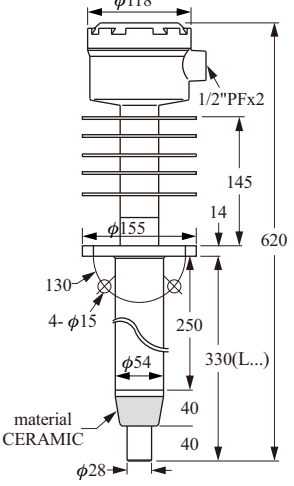
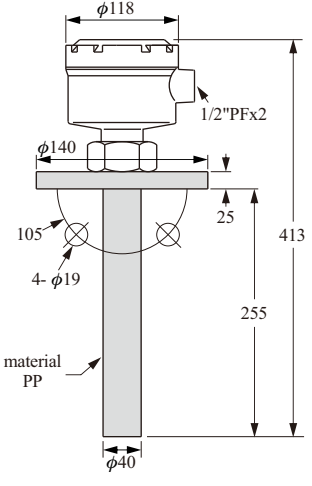
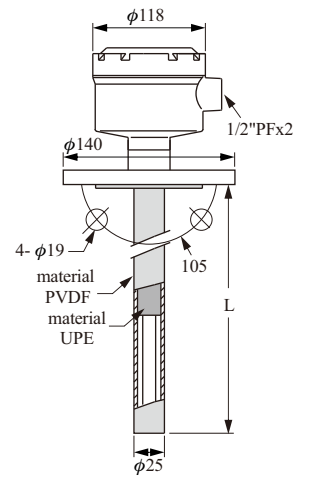
1. **Standard Type (SA110 & SA111)**
Suitable for general use.
2. **Hi-Temp Type (SA120 & SA128)**
Suitable for high temperature environment.
3. **Anti-Corrosion Type (SA130 & SA132)**
Suitable for corrosive environment.
4. **Remote Probe Type (SA140)**
For use with vibrator equipped with tank.
5. **Wire-Probe Type (SA150)**
Suitable for silo or large-size tank.
6. **Plate-Probe Type (SA160)**
Suitable for granules and at lower position of tank side.
7. **Explosion-Proof Type (SA270 ~ SA278)**
Ex d/ia II C T3~T6, DIP A20/21 TA,T3~T6
8. **Explosion-Proof Type (SA370 ~ SA378)**
Ex ia IIC T3/T6
Equipped with SA-75U signal conditioner can be used in hazardous areas.
9. **Anti-Static Type (SA180 & SA181)**
Suitable for electrostatic environment
(It won't be damaged by the electrostatic discharge)

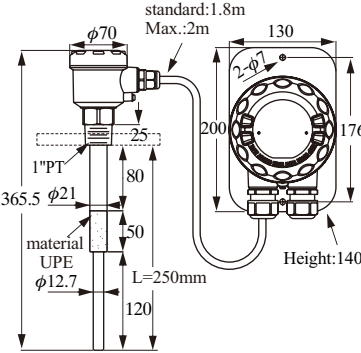
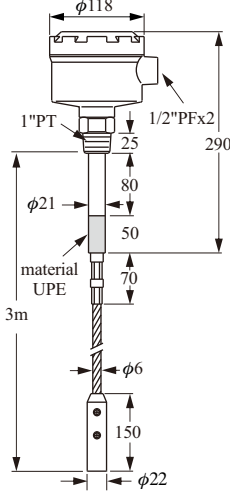
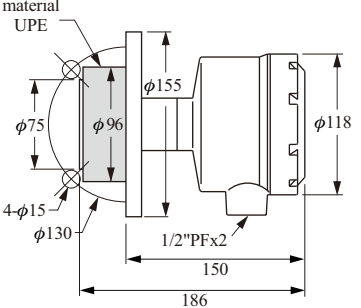


5. Housing : ADC-12 Aluminum IP65
6. Conduit opening : 1/2"PF or 3/4"PF
7. O-RING : NBR
8. PC board : A, B, C, D Type
9. Sensitivity adjustment : 10pf (std.), 20pf, 40pf
10. Cover : ADC-12 Aluminum

STANDARD MODEL

| | | | |
|---------------------------|---|--|---|
| Dimensions |  |  |  |
| Order No. | [STANDARD MODEL] SA110 | [STANDARD MODEL] SA111 | [HI-TEMP. MODEL] SA120 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~80°C | -20°C~200°C |
| Operation Pressure | 20kg/cm ² | 20kg/cm ² | 20kg/cm ² |
| Prob 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 | 15pF (std.) | | |
| Weight | Approx. 1.9kg | Approx. 1.9kg | Approx. 2.4kg |
| Housing | Aluminum IP65 | | |
| Supply voltage | 110/220Vac±10% or 19~24Vdc | | |
| Delay time | 0~6 sec | | |
| Power consumption | 2W | | |
| Output rating | Relay: 5A/250Vac/30Vdc,NPN 100mA | | |

| Dimensions |  |  |  |
|--------------------|---|--|---|
| Order No. | [SUPER HI-TEMP. MODEL] SA128 | [CORROSION-PROOF MODEL] SA130 | [CORROSION-PROOF MODEL] SA132 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~800°C | -20°C~80°C | -20°C~120°C |
| Operation Pressure | ATM | 20kg/cm ² | 20kg/cm ² |
| Prob 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 | 15pF (std.) | | |
| Weight | Approx. 6.5kg | Approx. 2kg | ————— |
| Housing | Aluminum IP65 | | |
| Supply voltage | 110/220Vac±10% or 19~24Vdc | | |
| Delay time | 0~6 sec | | |
| Power consumption | 2W | | |
| Output rating | Relay: 5A/250Vac/30Vdc,NPN 100mA | | |

| Dimensions |  |  |  |
|--------------------|---|--|---|
| Order No. | [REMOTE PROBE MODEL] SA140 | [WIRE-PROBE MODEL] SA150 | [PLATE MODEL] SA160 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~80°C | -20°C~80°C |
| Operation Pressure | 20kg/cm ² | 20kg/cm ² | 20kg/cm ² |
| Prob 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 | 15pF (std.) | | |
| Weight | Approx. 3kg | Approx. 4.1kg | Approx. 3.2kg |
| Housing | Aluminum IP65 | | |
| Supply voltage | 110/220Vac ± 10% or 24Vdc ± 20% | 110/220Vac ± 10% or 19~24Vdc | |
| Delay time | 0~8 sec | 0~6 sec | |
| Power consumption | 2W | | |
| Output rating | Relay: 5A/250Vac/30Vdc,NPN 100mA | | |

| | | |
|---------------------------|--------------------------------------|---|
| Dimensions | | |
| Order No. | [ANTI-STATIC MODEL] SA180 | [HI-TEMP. ANTI-STATIC MODEL] SA181 |
| Ambient temp. | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~200°C |
| Operation Pressure | 20kg/cm ² | 20kg/cm ² |
| Prob material | UPE Coating | PTFE Coating |
| Insulated material | UPE | PTFE |
| Connection | 1"PT Screw (SUS) | |
| Sensitivity range | 15pF (std.) | |
| Weight | Approx. 2kg | Approx. 2.5kg |
| Housing | Aluminum IP65 | |
| Supply voltage | 110/220Vac ± 10% or 19~24Vdc | |
| Delay time | 0~6 sec | |
| Power consumption | 2W | |
| Output rating | Relay: 5A/250Vac/30Vdc, NPN 100mA | |

EXPLOSION PROOF MODEL

NEPSI Ex d/ia IIC T3~T6 Gb/Ga
DIP A20/A21 T_A, T3~T6



| | | | |
|------------------------------|---|-----------------------------------|-----------------------------------|
| Dimensions | | | |
| Order No. | [STANDARD MODEL] SA270 | [STANDARD MODEL] SA271 | [HI-TEMP. MODEL] SA272 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~80°C | -20°C~200°C |
| Operating 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 | 15pF (std.) | | |
| Weight | Approx. 1.9kg | Approx. 2.4kg | Approx. 4.1kg |
| Housing spec. | Aluminum IP65 | | |
| Supply voltage | 110/220Vac±10% or 24Vdc±20% | | |
| Enclosure protection | Ex d/ia IIC T3~T6 Gb/Ga, DIP A20/A21 T _A , T3~T6 | | |
| Power consumption | 2W | | |
| Output contact rating | Relay: 5A/250Vac/28Vdc 3 wire NPN output, max. load current 400mA 3 wire PNP output, max. load current 400mA 4 wire NPN/PNP output, max. 400mA/60Vdc | | |

| | | | |
|------------------------------|---|---|---|
| Dimensions | | | |
| Order No. | [CORROSION-PROOF MODEL] SA273 | [CORROSION-PROOF MODEL] SA274 | [WIRE-PROBE MODEL] SA275 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~120°C | -20°C~80°C |
| Operating pressure | 20kg/cm ² | 20kg/cm ² | 20kg/cm ² |
| Probe material | SUS 304/316(PP Coating) | SUS 304/316(PVDF Coating) | SUS 304/316 Cable |
| Insulated material | UPE | UPE | UPE |
| Connection | 1-1/2"x10kg/cm ² (PP) | 1-1/2"x10kg/cm ² (SUS) W / 5mm PVDF Cushion | 1"PT Screw (SUS) |
| Sensitivity range | 15pF (std.) | | |
| Weight | Approx. 1.9kg | Approx. 2.4kg | Approx. 4.1kg |
| Housing spec. | Aluminum IP65 | | |
| Supply voltage | 110/220Vac ± 10% or 24Vdc ± 20% | | |
| Enclosure protection | Ex d/ia IIC T3~T6 Gb/Ga, DIP A20/A21 T _A , T3~T6 | | |
| Power consumption | 2W | | |
| Output contact rating | Relay: 5A/250Vac/28Vdc | | |
| | 3 wire NPN output, max. load current 400mA | | |
| | 3 wire PNP output, max. load current 400mA | | |
| | 4 wire NPN/PNP output, max. 400mA/60Vdc | | |

| Dimensions | | | |
|------------------------------|---|---|--------------------------------------|
| Order No. | [PLATE MODEL] SA276 | [HI-TEMP. ANTI-STATIC MODEL] SA277 | [ANTI-STATIC MODEL] SA278 |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~200°C | -20°C~80°C |
| Operating 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 | 15pF (std.) | | |
| Weight | Approx. 3.2kg | Approx. 3.1kg | Approx. 2kg |
| Housing spec. | Aluminum IP65 | | |
| Supply voltage | 110/220Vac ± 10% or 24Vdc ± 20% | | |
| Enclosure protection | Ex d/ia IIC T3~T6 Gb/Ga, DIP A20/A21 T _A , T3~T6 | | |
| Power consumption | 2W | | |
| Output contact rating | Relay: 5A/250Vac/28Vdc | | |
| | 3 wire NPN output, max. load current 400mA | | |
| | 3 wire PNP output, max. load current 400mA | | |
| | 4 wire NPN/PNP output, max. 400mA/60Vdc | | |

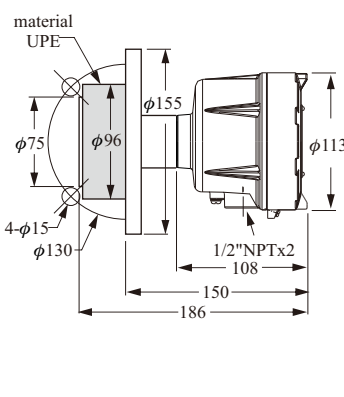
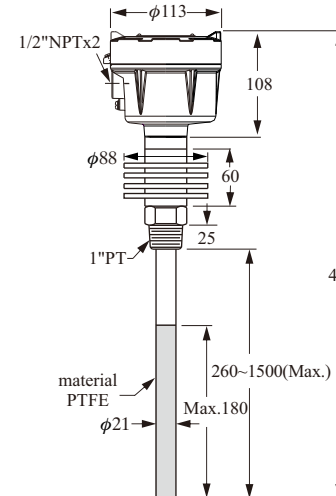
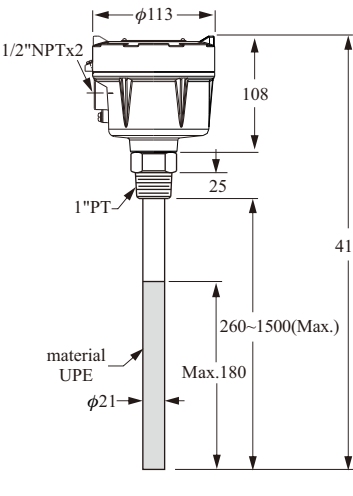
INTRINSICALLY SAFE MODEL

NEPSI Ex ia IIC T3/T4 Ga



| Dimensions | | | |
|----------------------|--|--|--|
| Order No. | [STANDARD MODEL] SA370(WITH SA-75U) | [STANDARD MODEL] SA371(WITH SA-75U) | [HI-TEMP. MODEL] SA372(WITH SA-75U) |
| Ambient temp. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~80°C | -20°C~200°C |
| Operation Pressure | 20kg/cm ² | 20kg/cm ² | 20kg/cm ² |
| Prob 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 | 15pF (std.) | | |
| Weight | Approx. 1.9kg | Approx. 2.4kg | Approx. 2.4kg |
| Housing spec. | Aluminum IP65 | | |
| Supply voltage | 16~24Vdc | | |
| Enclosure protection | Ex ia IIC T3/T4 Ga | | |
| Power consumption | 2W | | |
| Output rating | NPN 100mA | | |

| | | | |
|------------------------------------|---|---|--|
| <p>Dimensions</p> | | | |
| <p>Order No.</p> | <p>[CORROSION-PROOF MODEL] SA373(WITH SA-75U)</p> | <p>[CORROSION-PROOF MODEL] SA374(WITH SA-75U)</p> | <p>[WIRE-PROBE MODEL] SA375(WITH SA-75U)</p> |
| <p>Ambient temp.</p> | <p>-20°C~60°C</p> | <p>-20°C~60°C</p> | <p>-20°C~60°C</p> |
| <p>Operating temp.</p> | <p>-20°C~80°C</p> | <p>-20°C~120°C</p> | <p>-20°C~80°C</p> |
| <p>Operation Pressure</p> | <p>20kg/cm²</p> | <p>20kg/cm²</p> | <p>20kg/cm²</p> |
| <p>Prob material</p> | <p>SUS 304/316(PP Coating)</p> | <p>SUS 304/316(PVDF Coating)</p> | <p>SUS 304/316 Cable</p> |
| <p>Insulated material</p> | <p>PTFE or UPE</p> | <p>UPE</p> | <p>UPE</p> |
| <p>Connection</p> | <p>1-1/2"x10kg/cm² (PP)</p> | <p>1-1/2"x10kg/cm² (SUS) W / 5 mm PVDF Cushion</p> | <p>1"PT Screw (SUS)</p> |
| <p>Sensitivity range</p> | <p>15pF (std.)</p> | | |
| <p>Weight</p> | <p>Approx. 1.9kg</p> | <p>—————</p> | <p>Approx. 4.1kg</p> |
| <p>Housing spec.</p> | <p>Aluminum IP65</p> | | |
| <p>Supply voltage</p> | <p>16~24Vdc</p> | | |
| <p>Enclosure protection</p> | <p>Ex ia IIC T3/T4 Ga</p> | | |
| <p>Power consumption</p> | <p>2W</p> | | |
| <p>Output rating</p> | <p>NPN 100mA</p> | | |

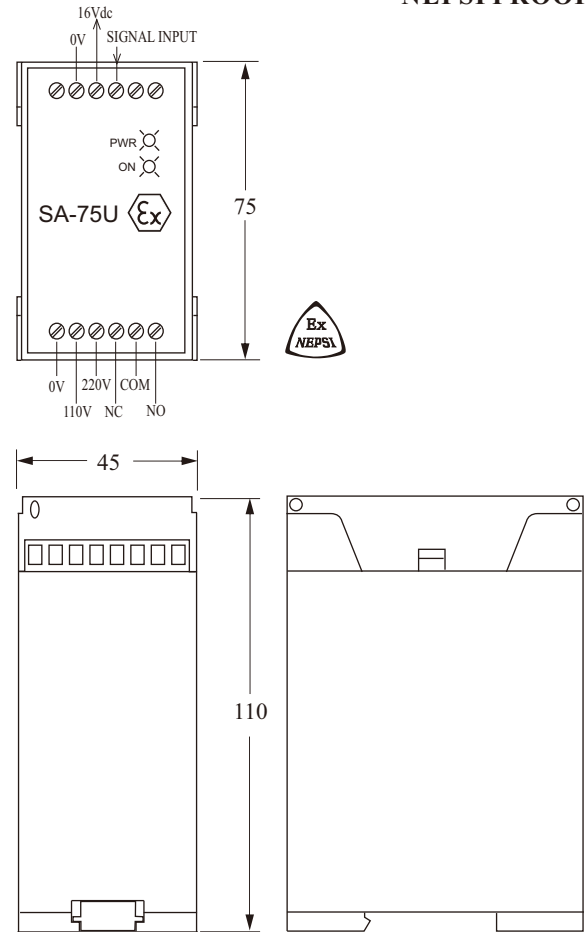
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|-----------------------------|--|--|---|
| Dimensions |  <p>material UPE $\phi 75$ $\phi 96$ $\phi 155$ $\phi 113$ $4-\phi 15$ $\phi 130$ $1/2''\text{NPT}\times 2$ 108 150 186</p> |  <p>$\phi 113$ $1/2''\text{NPT}\times 2$ 108 $\phi 88$ 60 25 $1''\text{PT}$ 472 $260\sim 1500(\text{Max.})$ material PTFE $\phi 21$ $\text{Max.}180$</p> |  <p>$\phi 113$ $1/2''\text{NPT}\times 2$ 108 25 $1''\text{PT}$ 412 $260\sim 1500(\text{Max.})$ material UPE $\phi 21$ $\text{Max.}180$</p> |
| 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. | -20°C~60°C | -20°C~60°C | -20°C~60°C |
| Operating temp. | -20°C~80°C | -20°C~200°C | -20°C~80°C |
| Operation Pressure | 20kg/cm ² | 20kg/cm ² | 20kg/cm ² |
| Prob 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 | 15pF (std.) | | |
| Weight | Approx. 3.2kg | Approx. 3.1kg | Approx. 2kg |
| Housing spec. | Aluminum IP65 | | |
| Supply voltage | 16~24Vdc | | |
| Enclosure protection | Ex ia IIC T3/T4 Ga | | |
| Power consumption | 2W | | |
| Output rating | NPN 100mA | | |

SA-75U INTRINSIC SAFE SIGNAL CONDITIONER

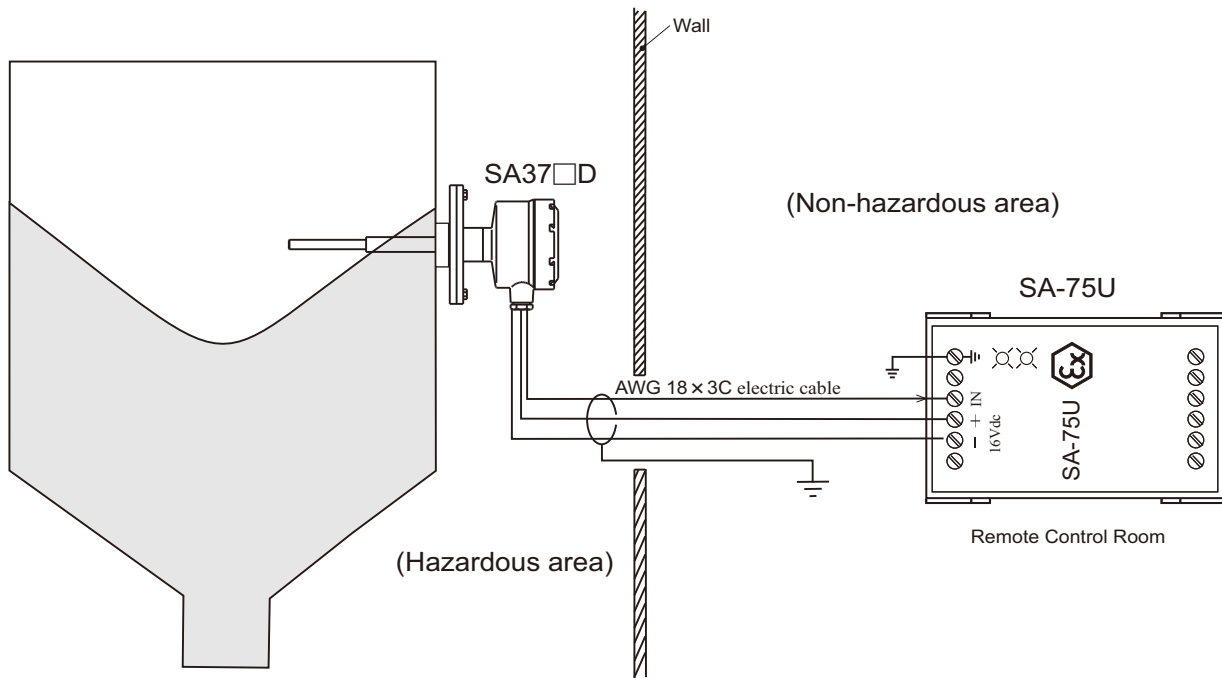
NEPSI PROOF

SA-75U Zener barriers inside provide intrinsic safety to SA37□ molex 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 / 220Vac ± 3%
2. Power consumption : 2W
3. Input signal : NPN transistor
resistance Ri= 500Ω
4. Output voltage : 16 Vdc
5. Short circuit current : 25mA max.
6. Relay output : SPDT
10A /30Vdc
10A /220Vac
7. Operating temp. : -20°C ~ 60°C
8. Weight : 0.3 kg
9. Enclosure rating : Ex ia Ga IIC



■ WIRING CONFIGURATION



CALIBRATION

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"

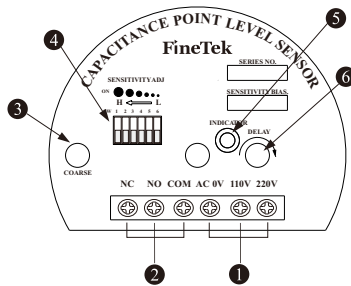
DELAY FUNCTION CALIBRATION

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

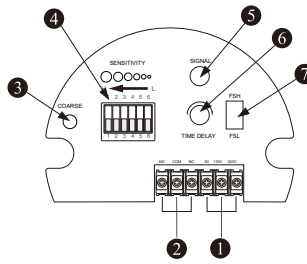
For setting the delay function, turn the screw clockwise. The further clockwise, the longer the delay. The delay function is suitable for mediums with agitators, splashing or level turbulence in the tank.

PANEL DESCRIPTION

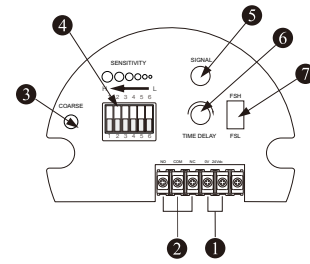
SA110,120,130,150,160,180



Explosion proof model SA27

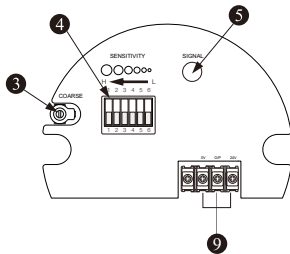


SA27□A

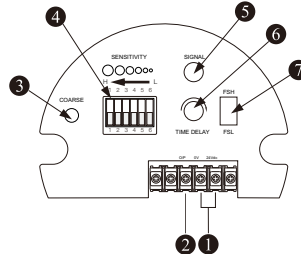


SA27□B

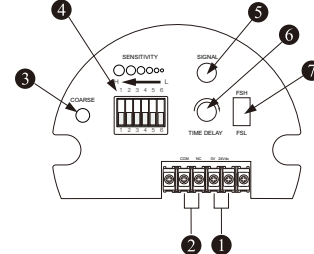
Intrinsically safe type SA 370



SA37□(SAX10□7B)

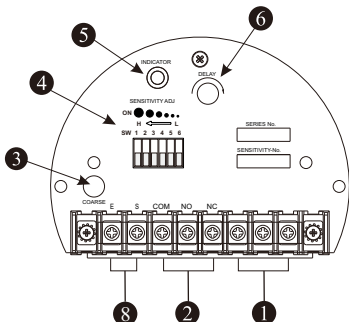


SA27□C/E



SA27□F

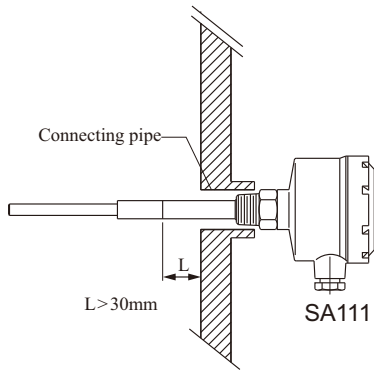
Remote probe model SA140



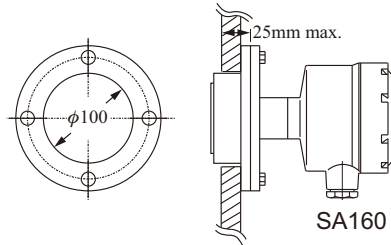
- ① : Power
- ② : Output
- ③ : Coarse position
- ④ : Sensitivity
- ⑤ : Level indicator

- ⑥ : Time delay setting
- ⑦ : Fail-safe switch
- ⑧ : Connect with probe connection
- ⑨ : Connect with the Intrinsically safe end of SA-75U

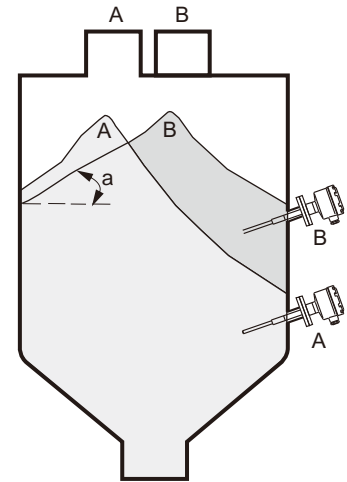
INSTALLATION NOTICE



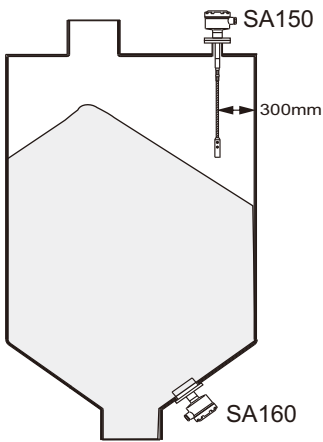
The insulation part should be mounted to protrude 30mm from the vessel wall.



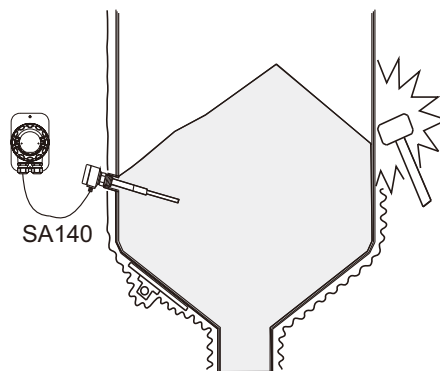
SA160 should be mounted as above.



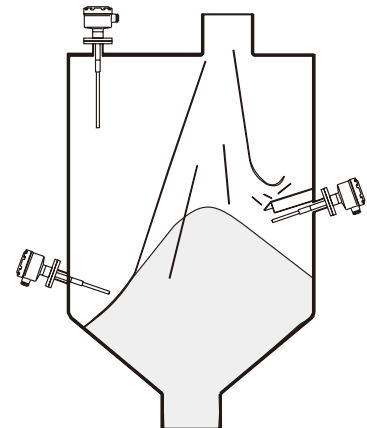
To prevent false readings, check the flow pattern (angle a) of the material and place the probe in the appropriate location.



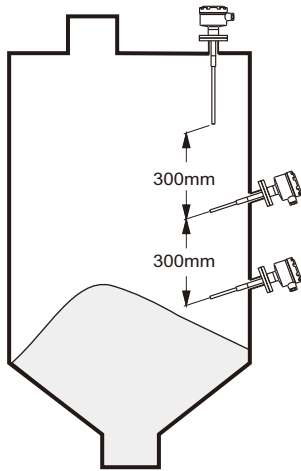
If the probe is mounted on the top, make sure the length of probe long enough to touch the highest level of medium.
The SA160 MODEL is usually installed at the lower wall of the tank.



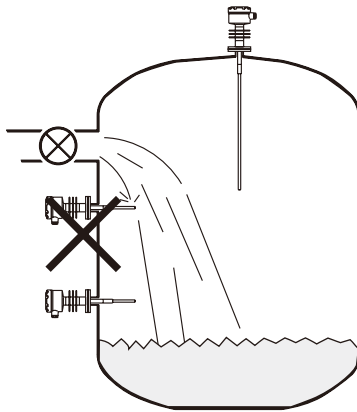
For Non-Stationary or vibrating environment, a separate control unit such as the SA140 is suggested.



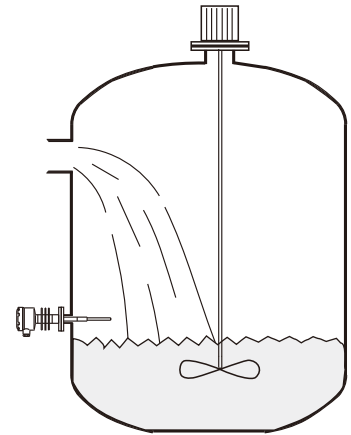
It is suggested to install the probe away from the inlet to reduce the risk of inflowing material damaging the probe. If the probe is near an inlet, it is recommended to place a protective cover 200mm above the probe. The cover should be parallel to the probe and the same length.



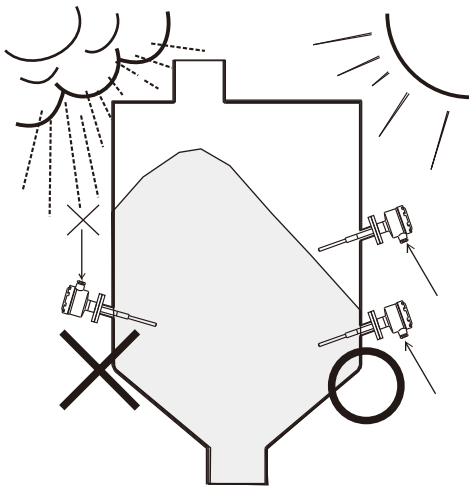
If two parallel probes are mounted, they must be installed separately at least 300 mm to minimize interference .



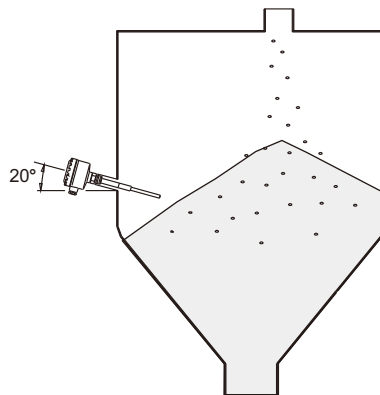
The probe should not be mounted underneath a liquid inlet, otherwise it will switch on erroneously.



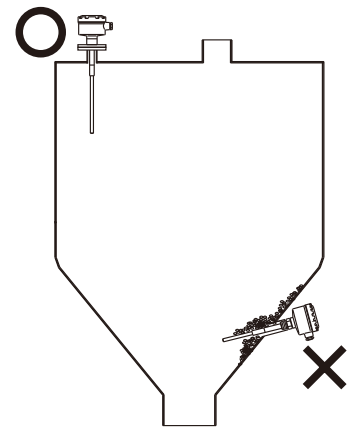
If the tank equips with agitator, please use the time-delay type to prevent fault level detection.



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



Mounting the probe at a 20° 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.

MODEL NUMBER / ORDER CODE COMPARISON TABLE

| Model Number | Order Code |
|--------------|------------|
| SA110 | SAX10000-A |
| SA111 | SAX10000-B |
| SA120 | SAX10200-B |
| SA128 | SAX10800-C |
| SA130 | SAX10000-D |
| SA132 | SAX10000-E |
| SA140 | SAX10400-B |
| SA150 | SAX10000-F |
| SA160 | SAX10000-G |
| SA180 | SAX10000-H |
| SA181 | SAX10200-H |

| Model Number | Order Code |
|--------------|------------|
| SA370 | SAX1007B-A |
| SA371 | SAX1007B-B |
| SA372 | SAX1027B-B |
| SA373 | SAX1007B-D |
| SA374 | SAX1007B-E |
| SA375 | SAX1007B-F |
| SA376 | SAX1007B-G |
| SA377 | SAX1007B-H |
| SA378 | SAX1027B-H |
| | |
| | |

| Model Number | Order Code |
|--------------|------------|
| SA270 | SAX1007C-A |
| SA271 | SAX1007C-B |
| SA272 | SAX1027C-B |
| SA273 | SAX1007C-D |
| SA274 | SAX1007C-E |
| SA275 | SAX1007C-F |
| SA276 | SAX1007C-G |
| SA277 | SAX1027C-H |
| SA278 | SAX1007C-H |

ORDER INFORMATION

SAX1 ⑤ ⑥ ⑦ ⑧ - ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮ ⑯ ⑰ ⑱ ⑲ ⑳ ㉑ ㉒ ㉓ ㉔ ㉕

- ⑤⑥ Model
- 00: Standard
 - 02: Hi-temperature
 - 04: Remote probe
 - 08: Super Hi-temperature

- ⑦⑧ Certification
- 00: None
 - 7B: NEPSI-Ex ia
 - 7C: NEPSI-Ex d

- ⑨ Type
- A: ϕ 27 Standard type
 - B: ϕ 12.7 Standard type
 - C: Hi-temperature type
 - D: Corrosion probe standard type
 - E: Corrosion probe Hi-temperature type
 - F: Wire probe type
 - G: Plate type
 - H: Anti- Static type

- ⑩ Power supply
- A : AC110V/220V
 - B : DC24V
 - C : DC16~24V(NEPSI-Ex ia Only)

Connection

- | | | |
|---|---|--|
| <p>⑪⑫</p> <p>Flange item</p> <p>AK: JIS-FF</p> <p>AN: ANSI-RF</p> <p>AS: DIN-FF</p> <p>Thread item</p> <p>AC: ANSI</p> <p>AA: JIS</p> | <p>⑬⑭</p> <p>A7: 3/4"</p> <p>A8: 1"</p> <p>B1: 1-1/2"</p> <p>B2: 2"</p> <p>B4: 2-1/2"</p> <p>D7: DN20</p> <p>D8: DN25</p> <p>D9: DN32</p> <p>E1: DN40</p> <p>E2: DN50</p> <p>E3: DN65</p> | <p>⑮⑯</p> <p>01: PT male</p> <p>03: PF male</p> <p>07: NPT male</p> <p>40: 5 kg/cm²</p> <p>42: 10 kg/cm²</p> <p>48: 150 Lbs</p> <p>49: 300 Lbs</p> <p>57: PN10</p> <p>58: PN16</p> |
|---|---|--|

(Next page)



⑤⑥⑦⑧⑨⑩⑪⑫⑬⑭⑮⑯⑰⑱⑲⑳㉑㉒㉓㉔㉕
SAX1 -

⑰ Output signal
 R: Relay
 P: PNP
 N: NPN
 M: MOS
 (Ex ia only NPN optional)

⑱ Probe material
 MA: SUS 304
 MB: SUS 316
 18: PP coating
 21: PTFE coating
 24: PVDF coating
 33: UPE coating

⑳ Insulated material
 00: None
 13: PEEK
 32: Ceramics
 33: UPE

㉒ Length

| Code | Probe Length |
|-----------|--------------|
| 0036~3000 | 0036~3000mm |

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