



Electrode Type Level Switch

Model: SEC/SH



SEC/SH

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Introduction

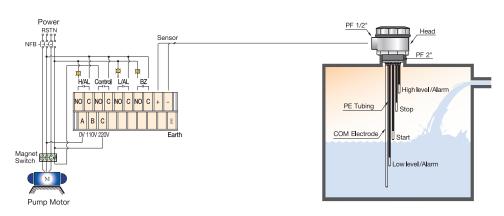
This level sensor and controller is designed to detect the liquid level by electrical conductivity.

Operation

Low voltage is applied the across the electrodes of different lengths. When the liquid level rises, electricity flows through the liquid and the controller is activated.

Features

- Applicable to municipal water and storage water tanks.
- It is designed to keep the water vapor out of the holder to prevent corrosion and malfunction.
- The single-chip CPU design enables selection of highly reliable multiple programs possible.
- The PCB can be removed from the terminal block without disconnecting the wires.(2-wire type)



Specifications

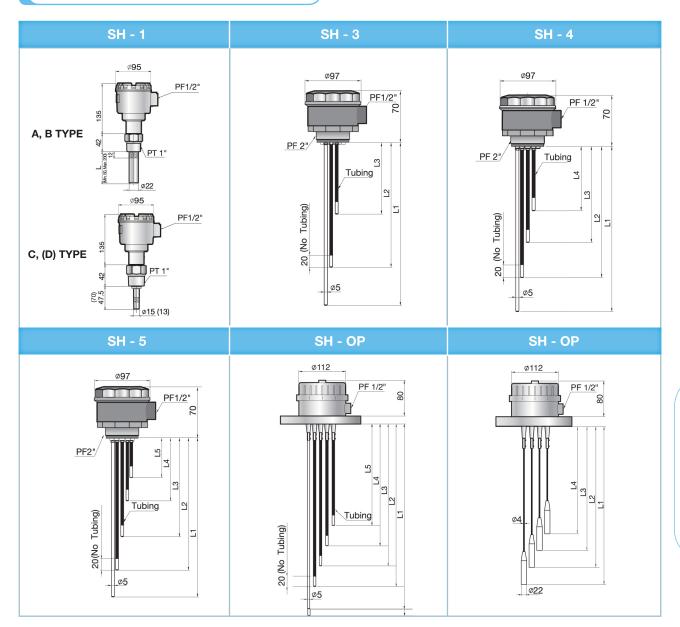
▶ Switch

| Description Type | Multi - Wire | 2 - Wire | |
|--------------------------------|---|--------------|--|
| Wire Connection | 3 - Wire ~ 8 - Wire | 2 - Wire | |
| Loop Impedance | 500Ω(15V DC) | 700Ω(20V AC) | |
| Application Temperature Limits | Head: -10 ~ +80°C, Electrode: -10 ~ +80°C | | |
| Operation Pressure | 2kgf /cm ² | | |
| Measuring Range | 5m Max. (20m for Wire -Type) | | |
| Material | Head: ABS Resin, ADC Electrode: 304SS, 316SS, PTFE Wire | | |

▶ Level Controller

| Type Description | Multi - Wire | | 2 - Wire |
|-------------------------|---|---|---|
| Switch(Output Voltage) | SEC-3U 12V AC | 15V/DC | 20V AC |
| | SQ-2U 12V DC | 15V DC | |
| Contact Rating | 250V AC, 5A | | |
| Power Supply | 110 or 220V AC±10%, 50/60Hz | 110/220V AC±10%, 50/60Hz | |
| Ambient Temperature | -10 ~ +60°C | | |
| Control Output | SEC-3U : Control (Supply) SQ- 2U : Control (Drain) | SEC- 5U -5W : L / AL, Control, H/ AL SMA-4 P-5W : L L , L , H , HH (AL1, AL2, AL3, AL4) | SEC- 5U- 2W : Bz, L / AL, Control, H/ AL SLA -4P -E : LL, L, H, HH(Bz, C1, C2, H/ AL) |
| Fuse Rating | 250V AC, 0.25A | | |
| Material | Base Plate : ABS+Glass Cover : ABS | Unburnable ABS | |
| Mounting Method | Rack/Wall Mount | Wall Mount | |
| Dimensions(mm) | 49(W)×60(H)×69(D) | 87(W)×156(H)×68.2(D) | |

Overall Dimension

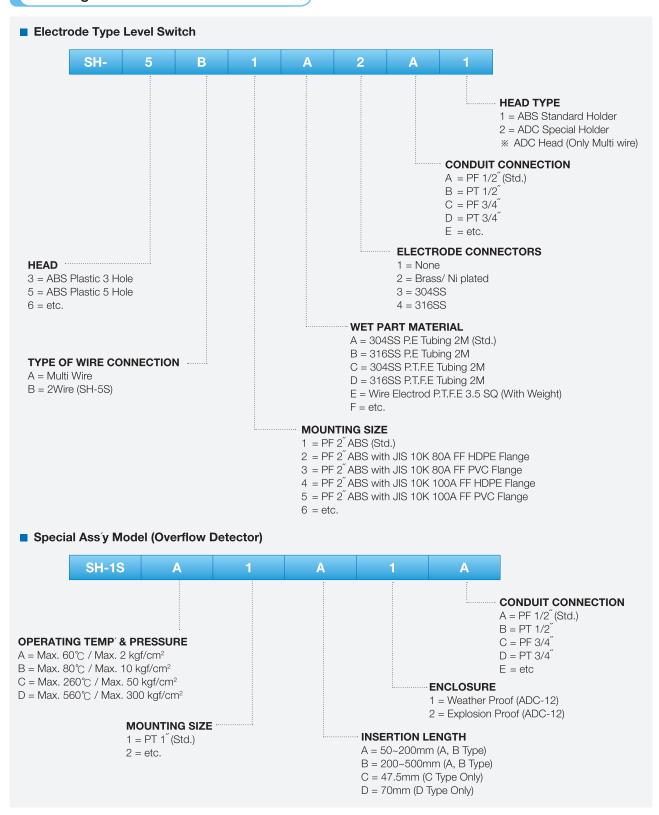


Precaution

- Use a wire-type where the ceiling level is low.
- Do not install the switch close to the water inlet.

 The position of High Alarm /Stop must be set lower than that of overflow.
- Do not use this model for high temperature and/or high pressure tanks.
- This model is not intended for use in non-conducting or high viscosity liquids. It should not be used for oils and chemicals.
- Do not apply it to condensing water tanks or vapour generating water tanks.
- When the electrodes are assembled at the job site, remove the tubing completely from common electrode E1. Peel back at least 2cm from the end for the other electrodes.
- Electrodes must be cleaned periodically.

Ordering Informations



■ Special Ass'y Model: SH-1S (Applicable to over flow detection type)

Wet Part Material: 304SS, 316SS & UHMW-PE (Min.50mm)

 $\blacksquare \text{When placing an order, selected ordering number should be indicated on the purchase order sheet.}$

