

# Electrode Type Level Switch

Model: SEC/SH



## SEC/SH

### Electrode Type Level Switch

#### Introduction

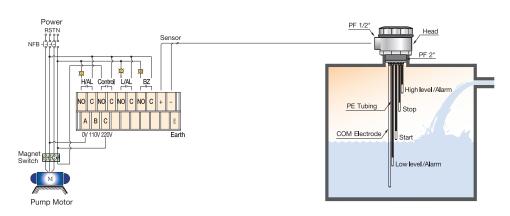
This level sensor and controller is designed to detect the liquid level by electrical conductivity.

#### **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**

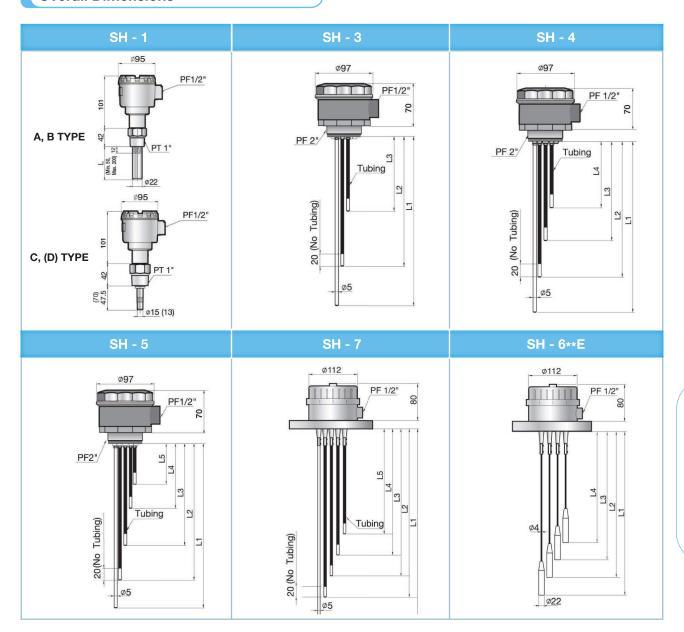
#### **►** Switch

<b>DESCRIPTION</b> 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 /cm²		
Measuring Range	5m Max. (20m for Wire -Type)		
Material	Head: ABS Resin, ADC Electrode: 304SS, 316LSS, Teflon Wire		

#### **▶** Level Controller

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<b>DESCRIPTION</b> Type	Multi-Wire		2 - Wire
Switch(Output Voltage)	SEC-3U 12V AC	- 15V DC	20V AC
	SQ-2U 12V 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℃		
Control Output	SEC-3U: Control (Supply) SQ-2U: Control (Drain)	SEC- 5U -5W : L / AL, Control, H/ AL SMA-4P-5W : L L , L , H , HH ( A L 1 , A L 2 , A L 3 , 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 Dimensions**

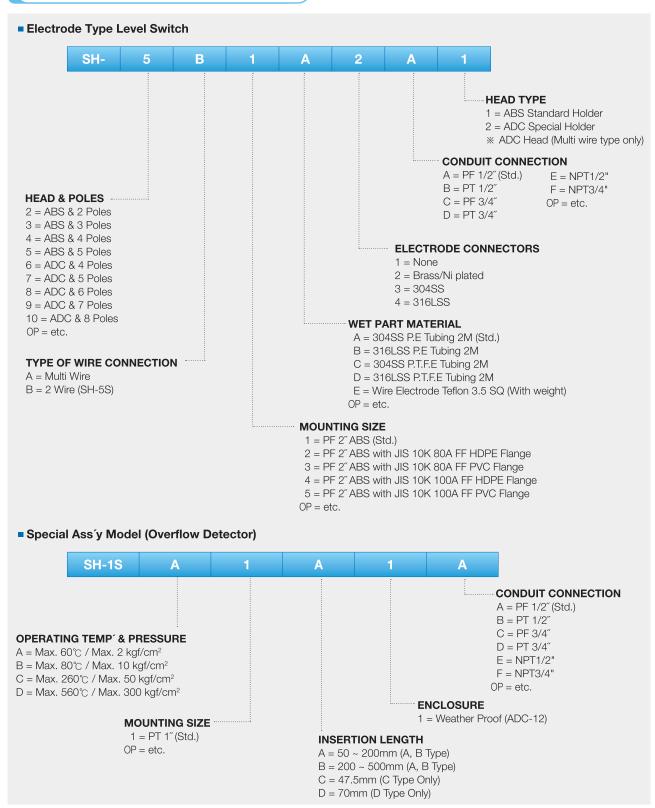


#### **Precaution**

- 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 vapor 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 Information**



■ Special Ass'y Model: SH-1S (Applicable to over flow detection type)
Wet Part Material: 304SS, 316LSS & UHMW-PE (Min.50mm)

■ When placing an order, selected ordering number should be indicated on the purchase order sheet.

