



Electrode Type Level Switch

Model: SEC/SH



SEC/SH

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Introduction

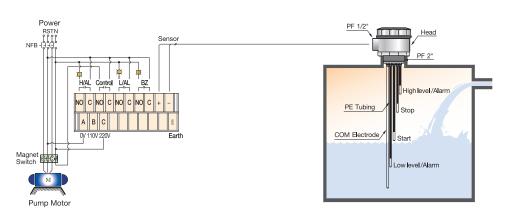
This level sensor and controller is designed to detect the liquid level by electrical conductivity.

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

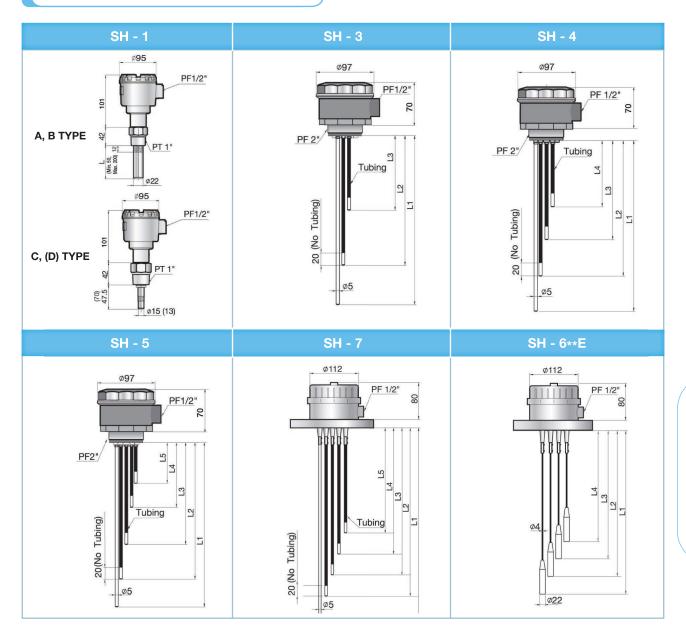
▶ Switch

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

▶ Level Controller

DESCRIPTION	Multi-Wire		2 - Wire
Switch(Output Voltage)	SEC-3U 12V AC	15//00	001/40
	SQ-2U 12V DC	15V DC	20V AC
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-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

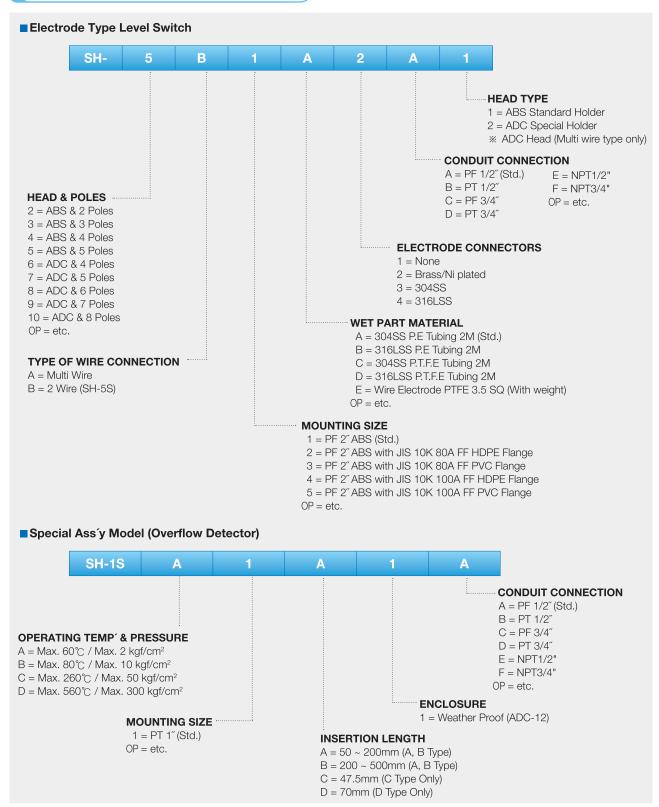


Precaution

- 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)

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

