

# Model SOL/ST-Series

## Float Type Liquid Level Sensor



# Mini Float Type Level Switch (SOL-Series)

Solar House / Washing Machine / Chemical Machine / Fuel Tank / Lubricant Oil Tank Engine General Oil Tank / Hydraulic Pressure Machine / Manufacturing Machine Vending Machine, etc.

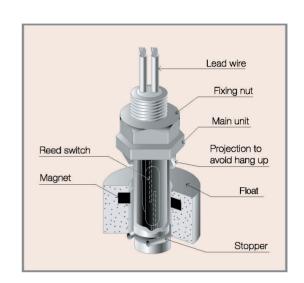
#### **Features**

- Compact Size
- **■** Low Cost
- Reliability / Long Switch Life
- Usable With Wide Range Of Liquids
- Easy Installation



The SEOJIN INSTECH mini float type liquid level switches contain hermetically-sealed reed switches in the stem and a permanent magnet in the float.

As the float rises or falls with the level of the liquid, the reed switch is activated by the magnet in the float. The switch that operates, normally open or normally closed can easily be changed by reversing the float.

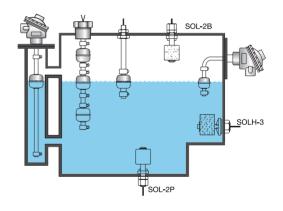


#### **Specifications**

#### **■ Level Controller**

Type Description	SOCKET		
Switch(Output Voltage)	12V DC		
Contact Rating	250V AC, 5A		
Power Supply	110 or 220V AC ±10%, 50/60Hz		
Ambient Temperature	-10 ~ +60 ℃		
Control Output	SEC - 3U : H/AL or L/AL SLC - 100U : Control (Supply)		
Material	Base Plate: ABS + Glass Cover: ABS		
Mounting Method	Rack / Wall Mount		
Dimensions(mm)	49(W) × 60(H) × 69(D)		

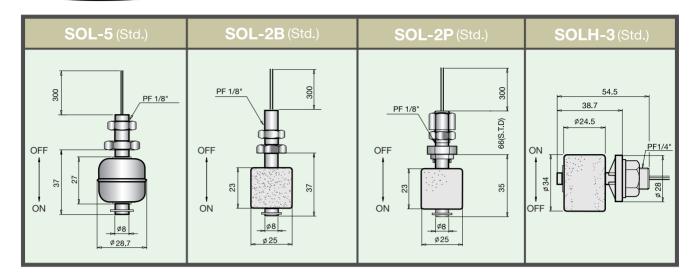
#### **Example of Mounting**



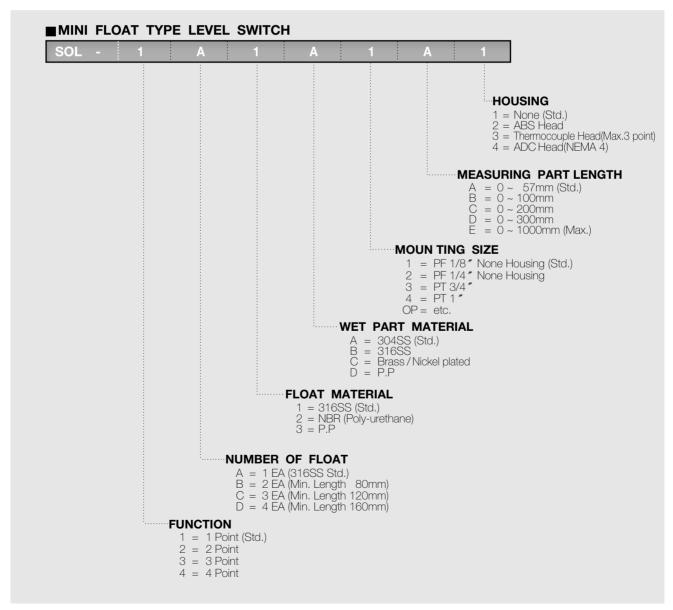
#### **■** Level Switch

Description Type	SOL-5	SOL-2B	SOL-2P	SOLH-3
Material : Stem Float Stopper	304SS or 316SS 304SS or 316SS 304SS or 316SS	MBsBE2 / Nickel plated NBR 304SS	P.P P.P P.P	P.P P.P P.P
Operating Temperature	-10°С ~ 100°С	-10 °C ~ 90 °C		
Pressure Rating	10kgf/cm <sup>2</sup> Max. 5kgf/cm <sup>2</sup> Max.			n² Max.
Mounting	Vertical Horizontal			Horizontal
Contact Capacity	350V DC, 0.7A / 300V AC 0.5A			
Specific Gravity	0.5 Min			
Lead Wire	#22AWG, 300mm			

#### Overall Dimensions



#### Ordering Informations



■ When order, give us information on exact locations of relay point.

# Float Type Level Switch (ST-US)

#### Features

■Ideally suited on liquid tanks of oil, hydrochloric acid, sulfuric acid, etc.

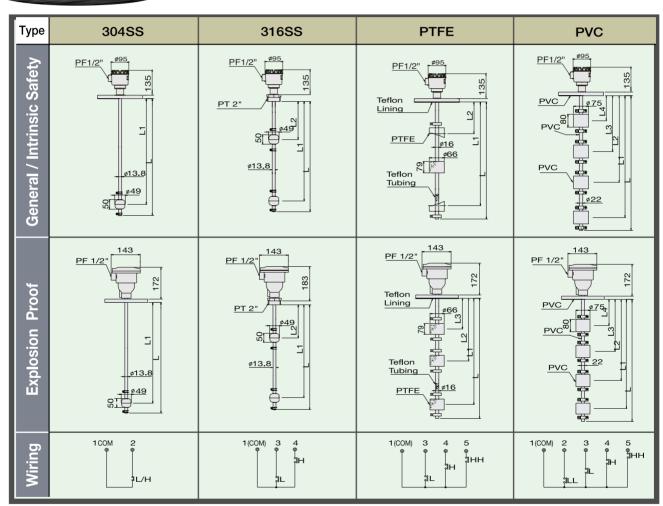
### Principle

Hermetically-sealed reed switches inside the stem are activated by the permanent magnet inside the float which rises and falls with the changes of liquid Level.

Resistance value is changed according to the operation of reed switches.

Total resistance value is selected by the unit and transmit relay output.

#### **Overall Dimensions**



#### **Specifications**

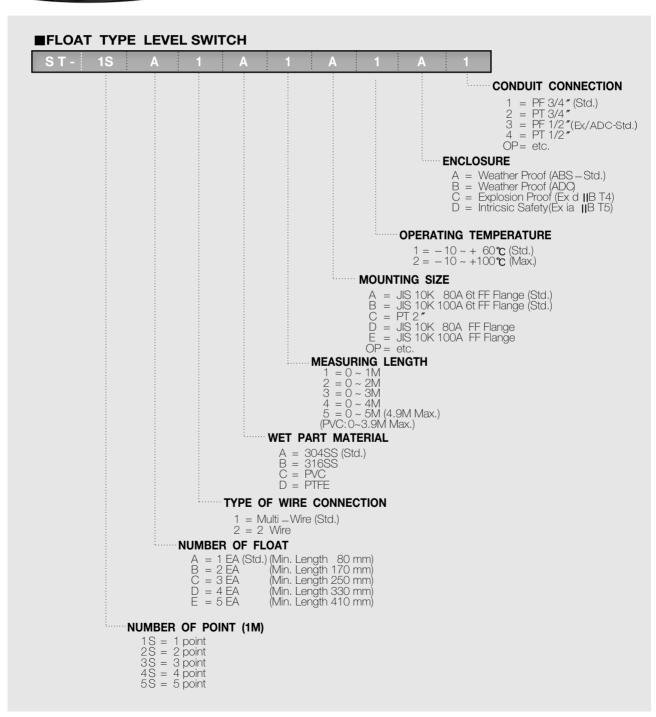
#### **■ Level Switch**

Description Type		304SS	316SS	PVC	PTFE	
Contact Capac	city	250V DC, 0.2A				
Tompovotuvo	Electronics	-10 ~ +60 ℃				
Temperature	Probe	-10 ~ +100 <b>°</b> c		-10 ~ +60 °C	-10 ~ +100 <b>°</b> C	
Operating Pressure 10Kgf/cm² Max.			m² Max.	2Kgf/cm²		
Specific Gravit	ty	0.65 Min. 0.5 Min. 0.75			0.75 Min.	
Enclosure		Weather Proof, Explosion Proof(EX d II B T5 or T4) ), Intrinsic Safety(EX ia II B T6 or T5			(EX ia II B T6 or T5)	

#### **■ Level Controller**

Description Type	Multi	2 - Wire		
Sensor (Output Voltage)	12V DC	15V DC	24V 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	SLC-100U : Control	SLCA-HL -5W : L/AL,Control,H/AL SMA-4P -5W : LL,L,H,HH (AL1,AL2,AL3,AL4)	SLCA-HL-2W: Bz,L/AL,Control, H/AL SLA-4P-Q: LL,L,H,HH (Bz,C1,C2,H/AL)	
Fuse Rating	N/A	250V AC, 0.1A		
Material	Base Plate : ABS + Glass Cover : ABS	Unburnable ABS		
Mounting Method	Rack / Wall Mount	Wall Mount		
Dimensions (mm)	49(W) x 60(H) x 69(D)	87(W) x 156(H) x 68.2(D)		

#### Ordering Informations



# Float Type Level Transmitter (ST-600)

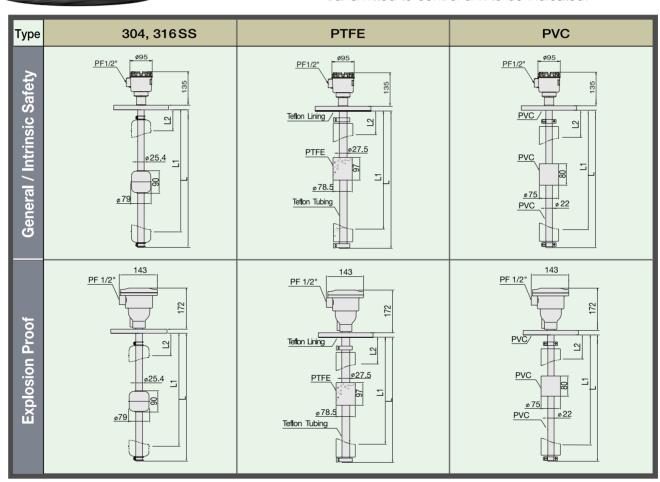
#### **Features**

- Municipal Water, Industrial Water, LPG Tank, Chemical Tank ...
- Easy installation and wide application.
- Applicable to chemical liquid with coating on stem, such as PVC, PTFE, etc.

### **Principle**

Reed switches which are built in the sensor are operated by the magnet float which moves up and down on the stem according to the material level. At this time, resistance value from the resistors which are connected side by side with reed switches is changed between R1, and R10 according to the location of operating reed switch and this output value is transmitted to convertor and it is changed to mA by the convertor and transmitted to control unit to be indicated.

#### **Overall Dimensions**



Special Float: 2 " - 316SS ( ø 52 x H60mm) & NBR( ø 40 x H30mm) with JIS 10K 50A FF Flange

#### **Specifications**

#### ■ Level Transmitter

Description Type		304SS	316SS	PVC	PTFE
Power Supply		15 ~ 32V DC			
Output Signal		4 ~ 20mA DC			
Tomporatura	Electronics	−20 ~ +60 <b>°</b> C			
Temperature Stem		-20 ~ +100 <b>℃</b>		–20 ~ +60 <b>°C</b>	-20 ~ +100 <b>℃</b>
Operating Press	sure	10Kgf/cm <sup>2</sup> 2Kgf/cm <sup>2</sup>			f/cm <sup>2</sup>
Calibration		Zero and Span Selection			
Accuracy		15mm(Less Than 1.2m) / 25mm(Excess Than 1.2m)			
Specific Gravity 0.65 Min. 0.5 Min. 0.75			0.75 Min.		
Enclosure Weather Proof, Explosion Proof(EX d    B T4), Intrinsic Safety (EX ia    B T4)			B T4)		

### **■** Level Controller

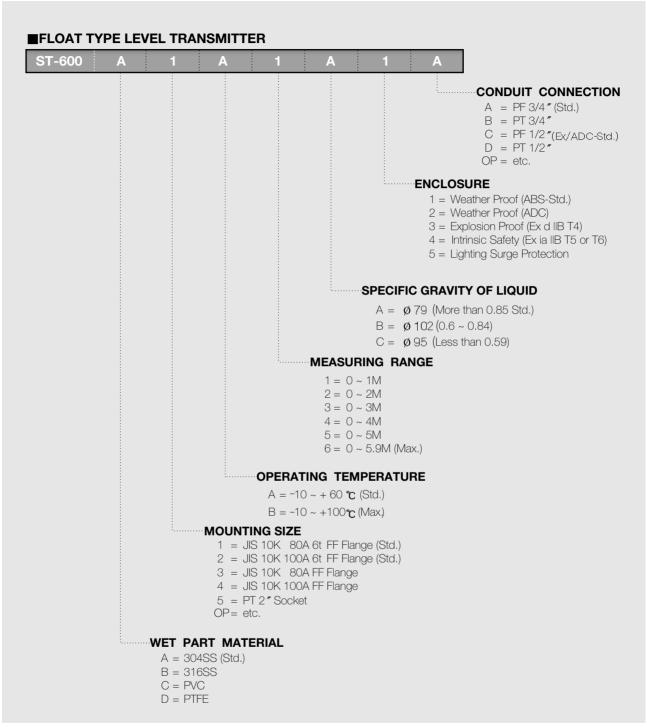
Description Type	2 - Wire				
Model	SLI-100U SLIC-4PD SLIC-4PD				
Power Suppiy	110V/220V AC ±10%, 50/60Hz				
Contact Rating		250V AC, 5A			
Input Signal	4 ~ 20mA DC 4 ~ 20mA DC Loop4 ~ 20mA DC 1 ~ 5V DC				
Ambient Temp.	0 ~ +60°C				
Control Output	Power Supply(24V DC) Bz, L/AL, Control, H/AL, 2-Step, 3-Step				
Mounting Method	Rack / Wall Mount	Wall Mount Panel Mount			
Cutting Size(mm)	49(W) x 60(H) x 69(D) 87(W) x 156(H) x 68.2(D) DIN 48 x 96				

#### **■** Level Indicator

Description Type	SAI-100 (Analog)	SAI-100EX (Explotion Proof)	SDI-100 (Digital)	SVI-100 (Vertical)
Mounting Method	Panel Mount Wall / Standing Panel Mount			Mount
Input Signal	4 ~ 20mA DC			
Internal Resistance	98	Ω	10 Ω	2.5 Ω
Scale Range	0 ~100%			
Ambient Temperature	-20 ~ +60 <b>°</b> C			
Weight	Approx. 450g	Approx. 10.7Kg	Approx. 670g	Approx. 1.5Kg
Cutting Size (mm)	ø100, □89,Hole 4X ø6	Stanchion Mount(50A)	DIN 44 X 92	50.7(W) x 152.3(H)
Application	for Panel Local Indication			







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





317-18 Seongsu 2Ga, Seongdong-gu, Seoul, Korea Tel:(02)462-1512 Fax:(02)466-6445 http://www.seojin.biz