

Process Automation Solutions for Food & Beverage Industries













































### SCS16X SANITARY VIBRATION FORK LEVEL SWITCH

### **WORKING PRINCIPLE**

Piezoelectric element drives the fork and vibrates at its frequency. When medium contacts the fork, a frequency reduction occurs. The change of the frequency is then detected and transferred to the electronics, and is converted into a signal output. There is no electronic amplifier, free of sensitivity adjustment for different media.

### **APPLICATION**

Liquid: Water, Oil, Beverage, Sauce, Alcohol, etc. Excellent performance at liquid applications with viscosity and foam Sanitary process connections for CIP cleaning system / SIP disinfection system complied with USA FDA and 3A Standards.

### **FEATURE**

- No calibration required
- Compact design, ideal for any installation
- Durable and maintenance-free
- IP69K Stainless Steel M12 electrical connection provides excellent performance at air-sealed environment, and allows up to 1 hour long submerged under water for intensive cleaning.
- Polishing rate (Ra) on request
- Power 10~35Vdc
- Suitable for liquid S.G. bigger than 0.7g/cm³; viscosity between 1~10000cst.
- Working temperature up to 150'C
- High / Low Fail-safe mode protection system
- Magnetic testing function to confirm the functions of peripheral equipment and wirings.
- Current overload protection. Output switch is off and LED alarm activated when current overload.
- Durable SUS316L housing
- High / Low level detection of any liquids
- Self-monitored function provides protection mode by switching off output when any abnormality (corrosive) inside the fork detected.(SCS164)



# **SPECIFICATION**

Dimension (unit:mm)	$\phi_{38}$ $\phi_{38}$ $\phi_{30}$ $\phi_{30}$ $\phi_{23}$ $\phi_{20}$ $\phi_{23}$ $\phi_{20}$ $\phi_{23}$ $\phi_{23}$ $\phi_{23}$ $\phi_{30}$ $\phi_{23}$ $\phi_{30}$ $\phi_{23}$ $\phi_{30}$ $\phi_{23}$ $\phi_{30}$ $\phi$	φ38 20 40 17 17 17 17				
Model No.	SCS162	SCS163				
Material	316L	316L				
Protection Rate	IP65 / IP67	IP65 / IP67				
Electrical Connection	DIN43650/Cable Connector/ M12x1	DIN43650/Cable Connector/ M12x1				
Process Connection	Clamp					
Fork Length	401	mm				
Power Supply	20~250Vac/Vdc,50/60Hz	12~55Vdc				
Power Consumption	<750mW	<825mW				
Current Consumption	<3mA	<10mA				
Overload Current	Min.10mA, Max.350mA	Max.350mA				
Fork Vibration Frequency	Air, Approx.	1KHz ± 10%				
Switch Point		:3mm from the tip of the fork n from the crevice centre of the fork				
Failure Safe Protection	Max	./Min.				
Display	Green: Power /Re	d: Switch Function				
Delay Time	Switch function activated in 1~3 sec. a	after fork covered by medium				
Delay Time	Switch function activated in 1~3 sec. a	after uncovered by medium				
Setup Time	<3s					
Contact Form	Contact less Electronic NPN/PNP					
Magnetic Testing	Confirm the function of the product with a magnet.					
Ambient Temp.	-40°C~80°C					
Storage Temp.	-40°C~85°C					
Working Temp.	-40°C~150°C					
Working Humidity	20%~80% RH	non-condensed				
Working Press.	Maximur	m 40 Bar				
Viscosity	1~10000 cst					
Specific Gravity	Liquid:0.7g/cm <sup>3</sup>					



# **SPECIFICATION**

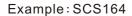
Dimension (unit:mm)	93
Model No.	SCS164
Material	316L
Protection Rate	IP67 / IP68 / IP69K
Electrical Connection	M12x1
Process Connection	3/4"G
Fork Length	40mm ± 2mm
Power Supply	10~35Vdc
Power Consumption	<825mW
Current Consumption	<15mA
Overload Current	Max.350mA ± 10%
Fork Vibration Frequency	Approx.1KHz±10%
Switch Point	Vertical Installation: 13mm ±1mm from the tip of the fork Horizontal Installation: 4mm ±1mm from the crevice centre of the fork
Repeatability	±0.5mm
Hysteresis	3 ± 0.5mm
Failure Safe Protection	Max./min
Display	Green: Power/Red: Error/Yellow: Switch function
Delay Time	Approx. 0.5sec. after covered by medium Approx. 1sec. after uncovered by medium
Setup Time	<2s
Contact Form	PNP
Magnetic Testing	Confirm the function of the product with a magnet.
Ambient Temp.	-40°C~70°C
Storage Temp.	-40°C~85°C
Working Temp.	-40°C~150°C
Working Temp. Working Humidity	-40°C~150°C 20%~80% RH non-condensed
Working Humidity	20%~80% RH non-condensed

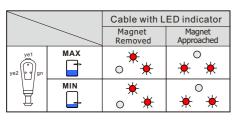


### **FUNCTION DISCRIPTION**

### **MAGNETIC TESTING:**

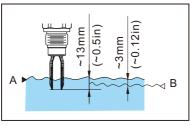
After the switch has been properly installed, introduce corresponding power to activate the vibration of the fork. Approach a magnet to the testing area of the housing (shown below), so that relay output performs the switch function (N/O to N/C; N/C to N/O). It uses the LED indication (yellow LED) to switch the status, and the fork continuously vibrates. Removing the magnet from the testing area, the output and LED indication (yellow LED) will return as default and the fork continuously vibrates. This verification is to confirm the function and wiring of the product.



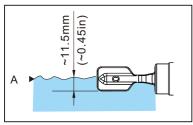




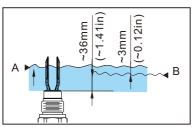
### **SENSING POINT:**



▲Vertically Top Mounted



▲Horizontally Side Mounted



▲Vertically Bottom Mounted

### **SCS164 WIRING CONNECTION:**

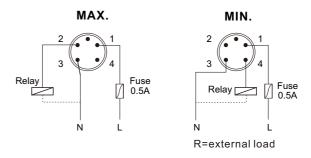
Power Supply 10~35Vdc Wiring connection is divided into MAX and MIN, as shown below.

### MAX:

As shown on the figure, connect pin 1 to 0.5A Fuse, and then connect it to L. External overload connects to pin 2, and then connect it to N with pin 3.

### MIN:

As shown on the figure, connect pin 1 to 0.5A Fuse, and then connect it to L. External overload connects to pin 4, and then connect it to N with pin 3.



NO.	1	2	3	4
Color	brown	white	blue	black

Connenction DC-PNP Plug M12x1

### **OUTPUT STATUS:**

	M	ax.	M	in.	Error S	Status
Status					Overload current or fork abnormal	No Power
Switch Function	1 2 Switch closed	1 2 Switch open	1 4 Switch closed	1 4 Switch open	1 2 1 4	1 2 1 4
LED	o <sup>*</sup> *	• * *	* *	o <del>*</del> *	o ★	0 0

#: Light ON O: Light OFF

\* Cable with LED indicator on request (Max. 5M).



### **FUNCTION DISCRIPTION**

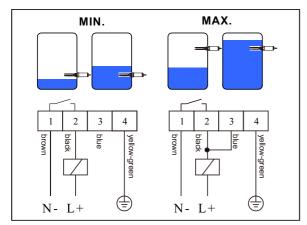
### **SCS162 WIRING CONNECTION:**

Supplied power is AC/DC, so it is 2-wire wiring connection. Relay output connects to 2-wire (L+/N-), as shown below.

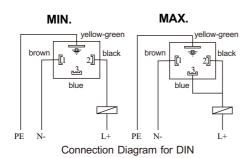
Low Level (Min.) Operation Mode: Connect pin 1 (brown) to N- terminal; Connect relay to pin 2 (black). Then, connect it to L+. Pin 4 (yellow-green) connects to ground. •

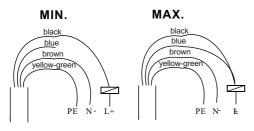
### High Level (Max.) Operation Mode:

Connect pin 1 (brown) to N- terminal; Connect relay to pin 2 & 3 (black & blue). Then, connect it to L+. Pin 4 (yellow-green) connects to ground.



Connection for two-wire





Connection Diagram for M12x1, Cable

### **OUTPUT STATUS:**

SCS162X series is 2-wire type power supply. Relay output connects to cable wire of power supply (L+/-). It provides Min. / Max. operation modes: When introduced 20~250, 50/60Hz Vac/Vdc power, the power indicator, green LED, on top of the housing will be activated. Detailed description is shown below.

### O Low Level (Min.) Operation Mode:

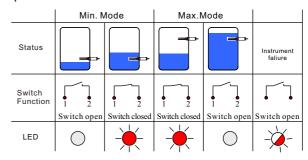
After proper installation, the fork vibrates in 3 seconds after power introduced. Relay status is N/O, and the red LED is OFF; when the fork is covered by medium, relay switches to N/C, and red LED turns ON.

### High Level (Max.) Operation Mode:

After proper installation, the fork vibrates in 3 seconds after power introduced. Relay status is N/C, and the red LED is ON; when the fork is covered by medium, relay switches to N/O, and red LED turns OFF.

### Flashing red indicates abnormal:

Possible causes overloads or short-circuit load back, equipment malfunction or wear tuning fork probe.

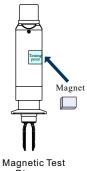


- It represents Blinking

Min. / Max. Switch Mode Corresponding Status

### **MAGNETIC TEST:**

After the switch is installed and powered, magnetic test function can be performed accordingly. The testing point is marked on the housing label. User holds the magnet and moves it close to testing point, the output status will switch from NO. to NC. or NC to NO. and red LED would switch ON or OFF while fork continues to vibrate. When magnet is pulled away from the testing point, the output status and red LED would return as default while fork continues to vibrate. The purpose of testing is to confirm the wiring and functioning are correct.



Ďiagram



### **FUNCTION DISCRIPTION**

### **SCS163 WIRING CONNECTION:**

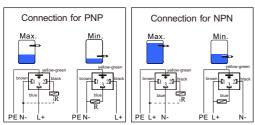
DC Power supply, PNP / NPN output. Wiring connection is shown below.

### PNP Wiring Connection:

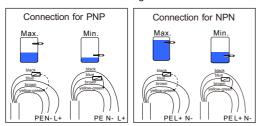
- High Level (Max.) Operation Mode: Pin 1 (brown) connects to N-. Pin 3 (blue) connects to L+. Output load connects to pin 2 (black), and then connect it to N-. Pin 4 (yellow-green) connects to ground.
- Low Level (Min.) Operation Mode: Pin 1 (brown) connects to N-. Pin 2 (black) connects to L+. Output load connects to pin 3 (blue), and then connect it to N-. Pin 4 (yellow-green)connects to ground.

### NPN Wiring Connection :

- High Level (Max.) Operation Mode:
   Pin 1 (brown) connects to L+. Pin 3 (blue)
   connects to N-. Output load connects to pin 2 (black), and then connect it to L+. Pin 4 (yellow-green) connects to ground.
- Dow Level (Min.) Operation Mode: Pin 1 (brown) connects to L+. Pin 2 (black) connects to N-. Output load connects to pin 3 (blue), and then connect it to L+. Pin 4 (yellow-green)connects to ground.



Connection Diagram for DIN



Connection Diagram for M12x1, Cable Connection for output PNP/NPN

### **OUTPUT STATUS:**

SCS163X series provides Min. / Max. operation modes based on the pin that is connected to ground: When introduced 12~55Vdc, the power indicator, green LED, on top of the housing will be activated. Detailed description is shown below.

### O Low Level (Min.) Operation Mode:

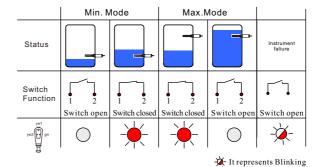
After proper installation, the fork vibrates in 3 seconds after power introduced. Transistor is non-contact, and red LED is OFF; when the fork is covered by medium, transistor switches to contact, and red LED turns ON.

### ○ High Level (Max.) Operation Mode:

After proper installation, the fork vibrates in 3 seconds after power introduced. Transistor is contact, and red LED is ON; when the fork is covered by medium, transistor switches to non-contact, and red LED turns OFF.

### Flashing red indicates abnormal:

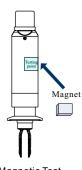
Possible causes overloads or short-circuit load back, equipment malfunction or wear tuning fork probe.



Min. / Max. Switch Mode Corresponding Status

### **MAGNETIC TEST:**

After the switch is installed and powered, magnetic test function can be performed accordingly. The testing point is marked on the housing label. User holds the magnet and moves it close to testing point, the output status will switch from NO. to NC. or NC to NO. and red LED would switch ON or OFF while fork continues to vibrate. When magnet is pulled away from the testing point, the output status and red LED would return as default while fork continues to vibrate. The purpose of testing is to confirm the wiring and functioning are correct.



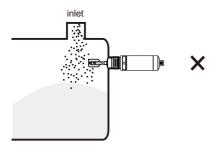
Magnetic Test Diagram



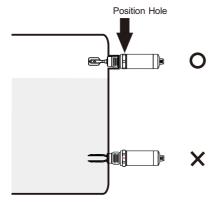
### **INSTALLATION**

### **HORIZONTAL INSTALLATION:**

1. Avoid material inlets

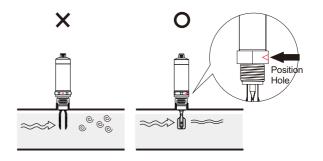


2. The position hole must face upward, otherwise, the flowing medium might press the fork and lead to product failure.

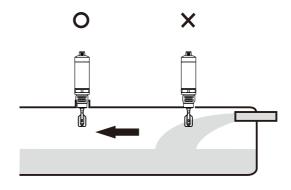


### **VERTICAL INSTALLATION:**

 When installed in a pipe with flowing liquid, the gap of the two forks shall be in the same direction as the liquid flowing direction.



2. Avoid material inlets





### MODEL NUMBER / ORDER CODE COMPARISON TABLE

Model Number	Order Code
SCS162	SCS10000-AA
SCS163	SCS10000-AB
SCS164	SCS20000-AA



## **ORDER INFORMATION**

0100~0250 | 100~250mm

						<b>.</b>		a 6		a 6	à 6		
		SCS 1 0 0	0 0 -	(9) (10)		2) (13) 	(14)   	19 (1		19) (2	9 (2 7	) (22) 	
		565100	0 0	ΤΤ						<u> </u>			
Construction	n ———			╛╽									
A: Standard													
B: Extended typ	pe												
Input/Output	t												
-	- /dc, 50/60Hz ; 2 w			c swit	ch								
	3 wire PNP/NPN C												
Connection –													
	00	00					_						
(I) (I2) AI : 3A	③ <sup>(4)</sup> A8: 1"	(5) (6) 00: None											
AI : 0A	B1: 1-1/2"	00. 140110											
	B2: 2"												
17 18 Probe mat	terial ———												
MC: SUS 316L													
<sup>19</sup> Tuning fork	surface roughn	ess —											
A: Ra<0.3													
B: Ra<0.8 C: Ra<1.5													
0. Na 1.5													
<sup>20</sup> Wiring —													
A: M12 X 1 (18	•												
B: M12 X 1 (90)	°C),2m												
C: Cable,2m D: DIN Connect	tor												
21) 22) 23) 24) Length	n ————												
Code	Probe Length												



				<b>(9)</b> (1	0 (11)	12 (13	14	15)	16) (1	17)	18 (1	9 20	21	22	23) (24
	•	SCS 2 0 0 0	0 -												
<ul><li>Construction</li><li>A: Standard</li></ul>	on														
(i) Input/Output A: 10~35 Vdc,	ut ————————————————————————————————————	r PNP													
Commontion															
Connection  (I) (I)  AD: DIN  AI: 3A  AA: JIS	(3) (4) A7: 3/4" A8: 1" B1: 1-1/2" B2: 2" E1: DN40	<sup>15</sup> <sup>16</sup> 00: None 03: PF male 17: G male													
(1) (8) Probe ma MC: SUS 316I															
(9) Tuning forl A: Ra<0.3 B: Ra<0.8 C: Ra<1.5	k surface roughne	ss —													
`	0°C) PVC 24AWG wi 0°C) PVC 24AWG no														
21) 22) 23) 24) Leng	th														
Code	Probe Length														



0069~0069

69mm

# EGS SANITARY MAGNETOSTRICTIVE LEVEL TRANSMITTER

### **WORKING PRINCIPLE**

Magnetostrictive Level Transmitter is based on the principle that two different magnetic fields intersect create a torsion wave. Computing the time cycle that is needed to detect this signal will get the exact distance (D).

The two magnetic fields, one comes from dynamic magnet outside the transmitter, and the other is from current pulse on the metal wire inside the transmitter. The current pulse is generated by current of the transmitter. When the two magnetic fields intersect, a torsion wave is generated. This signal travels back at a fixed speed to the sensor of the transmitter in the way of ultrasound. The time cycle from the time when a current pulse is generated to the pulse travels back the sensor multiples fixed speed will get the exact distance of the dynamic magnet. The process is non-stop. Whenever the magnet moves, new location will be detected immediately. Output signal is absolute output.

### **FEATURE**

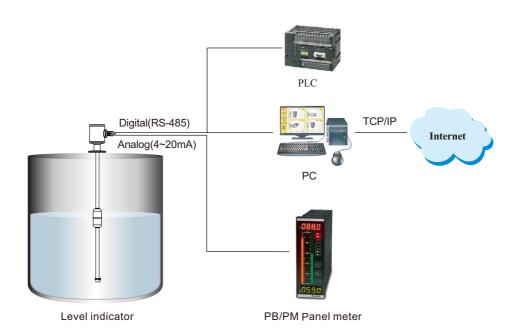
High resolution and high accuracy, easy installation, free of maintenance and calibration, stable and reliable Anti-pollution, anti-dust, resistant to high pressure

Housing is made of corrosive resistance seamless Stainless Steel.

Remote control via PC
Working temperature -40~ +125'C
Oil/Water interface detection

### **APPLICATION**

- High temperature disinfection (125°C)
- High pressure cleaning
- CIP cleaning system
- SIP disinfection system
- Pasteurization system
- Pharmaceutical equipment
- Beverage, drinking water, edible oil
- Food filling and level control
- Temperature measurement





# **SPECIFICATION**

Dimension (Unit:mm)	φ32 φ32 φ32				
Model No.	EGS15				
Housing	SUS316				
Wetted Parts	SUS316/SUS316L				
Polishing (um)	Ra<0.3 or Ra<0.5 or Ra<0.8				
Measuring Range	25mm~2500mm				
Temperature Sensor	PT100				
Temperature Accuracy	±1°C				
Ambient Temp.	-40~85°C				
Working Temp.	-40~125°C				
Power Supply	12~30Vdc				
Output Current Mode	4~20mA/20~4mA				
Output Current Resistance	<500(ohm)				
Output Voltage Mode	0~10V,10~0V,0~5V,5~0V, ± 10V, ± 5V				
Output Voltage Ripple	<10mV				
Output Voltage Resistance	2ΚΩ				
Sampling Rate	500 time / sec.				
Linearity	± 100um@500mm or ± 0.02% FS				
Repeatability	±0.002% F.S.				
Hysteresis	±0.004% F.S.				
Communication Output	RS485				
Protection Rate	IP67(Housing)/IP69K(Probe)				
Connection	1-1/2"~2"(Sanitary)				
Working Press.	10bar(Max)				

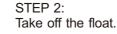


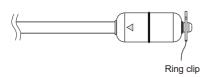
### **INSTALLATION**

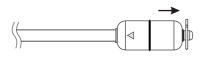
- 12Vdc~30Vdc
- The product is calibrated by the manufacturer. Users shall not change the measuring ranges by themselves.
- Do not bend the stem as it will destroy the measurement accuracy of the product.
- Do not change the float of the product as it will affect the measurement accuracy of the product.
- The product can be installed directly without taking off the float if the diameter of the process connection hole is bigger than the float.
- If the diameter of the float is bigger than the diameter of the process connection hole, it is necessary to take off the float before installing. While re-installing the float, mark on the float has to be pointing at the direction of the product housing.
- The stopper must be fixed well on the stem core.
- Please keep the float from dropping down as attack on the float might result in magnet breaking inside the float which will lead to product failure.
- The product should be well packed by vibration-absorbed packing material, such as, bubble or foam bags, to ensure safety during delivery.
- Due to accuracy concern, do not open then cover of the housing.

# INTALLATION METHOD IF THE FLOAT HAS TO BE TAKEN OFF BEFORE INSTALLATION

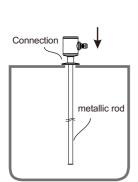
STEP 1: Remove the ring clip from the stem.



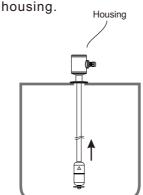




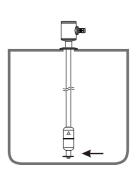
STEP 3: Install the product into the tank and screw tight the process connection.



STEP 4: Install back the float to the stem, and the mark on the float should be pointing at the direction of the product housing



STEP 5: Screw the ring clip well on the core of the stem.





# MODEL / NUMBER ORDER CODE COMPARISON TABLE / ORDERING INFORMATION

Model Number	Order Code
EGS15	EGX40000-A1AI

EGX4 0 0 0 0 - A 1			(1)     (1)     (1)     (1)     (1)     (1)     (1)     (2)     (2)     (2)     (2)     (2)     (2)     (3)     (4) <th>32) (33</th>	32) (33
@	EGX	<b>X4</b> 0 0 0 0 - <b>A</b>	1	
@	_			
Al: 3A B1: 1-1/2" 00: None B2: 2"   ®® Probe material  MB: SUS316  MC: SUS316L   ®® Float  AA: 32X69X10.9, E>0.9, SUS316L  A1: 32X69X10.9, E>0.75, SUS316L  A2: 32X69X10.9, E>0.75, SUS316L  A3: 32X69X10.9, E>0.75, SUS316L  A1: 32X69X10.9, E>0.75, SUS316L  B2: O-5V  B3: 20-4mA				
B2: 2"  @ Probe material  MB: SUS316  MC: SUS316L  @ Float  AA: 32X69X10.9, E>0.9, SUS316L  A1: 32X69X10.9, E>0.75, SUS316L  S Analog output  A: 4~20mA				
	AI : 3A		00: None	
MB: SUS316 MC: SUS316L				
MB: SUS316 MC: SUS316L	19 20 Probe r	naterial ———		
⊕				
AA: 32X69X10.9, E>0.9, SUS316L A1: 32X69X10.9, E>0.75, SUS316L     A: 4~20mA	MC: SUS31	3L		
AA: 32X69X10.9, E>0.9, SUS316L A1: 32X69X10.9, E>0.75, SUS316L     A: 4~20mA				
A1: 32X69X10.9, E>0.75, SUS316L    A: 4~20mA	②1②2 Float —			
	AA: 32X69X	10.9, E>0.9, SUS	3316L	
A: 4~20mA	A1: 32X69X	10.9, E>0.75, SU	S316L	
A: 4~20mA				
A: 4~20mA	② Analog o	utput ———		
B: 20~4mA				
D: 20~0mA				
② Digital output  0: None  B: RS-485  C: RS-485+PT100  ③ Surface roughness  A: Ra<0.3  B: Ra<0.5  C: Ra<0.8				
0: None B: RS-485 C: RS-485+PT100  ② Surface roughness A: Ra<0.3 B: Ra<0.5 C: Ra<0.8	D: 20~0mA	H: 10~0V		
0: None B: RS-485 C: RS-485+PT100  ② Surface roughness A: Ra<0.3 B: Ra<0.5 C: Ra<0.8				
B: RS-485 C: RS-485+PT100  ② Surface roughness A: Ra<0.3 B: Ra<0.5 C: Ra<0.8	26 Digital or	utput ———		
C: RS-485+PT100  ② Surface roughness A: Ra<0.3 B: Ra<0.5 C: Ra<0.8	0: None			
Surface roughness  A: Ra<0.3  B: Ra<0.5  C: Ra<0.8		T400		
A: Ra<0.3 B: Ra<0.5 C: Ra<0.8	C: RS-485+	21100		
A: Ra<0.3 B: Ra<0.5 C: Ra<0.8				
B: Ra<0.5 C: Ra<0.8		oughness ——		
C: Ra<0.8				
(3) (3) (3) Length ————————————————————————————————————	J. 1.0.0.0			
	30) 31) 32) 33) Len	gth —		

Code	Probe Length
0025~2500	25~2500mm



### SPS SANITARY THERMAL DISPERSION FLOW SWITCH

### **WORKING PRINCIPLE**

Thermal Dispersion Flow Switch is a reliable and accurate flow switch based on thermal dispersion principle. Two temperature sensors are built inside the probe of the product. One sensor is heated, and the other is used as a reference to detect the temperature of the medium. This creates a temperature difference between two sensors, and switch changes state once it reaches the set point. Temperature difference is an inverse ratio to the flow velocity. Material of the probe and housing are stainless steel or engineering plastic. Since the device is without moving parts, there is no wear and tear problem.

### **FEATURE**

Compared to the traditional paddle type flow switch, thermal dispersion flow switch offers high sensitivity, no limitation on installing location, and no moving parts tear and wear. Suitable for liquid application with impurities. Different materials on request for food / food additives application. Probe lengths are customized to meet any application. Three different signal outputs are available for selection.

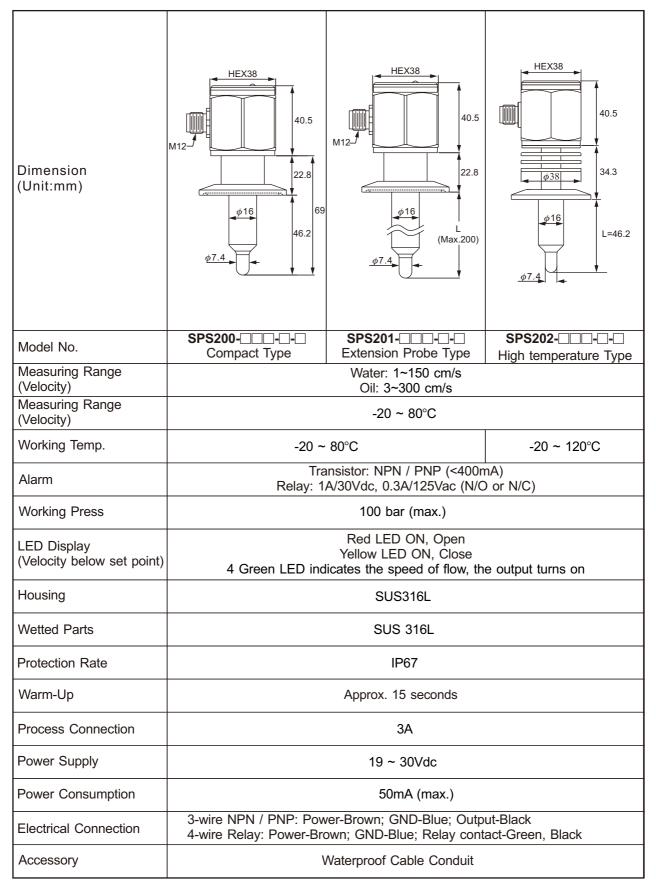
### **APPLICATION**

Food, Beverage, Drinking Water, Edible Oil, Food Process Filling, Pharmaceutical, High Temperature Disinfection, etc. Any pipes flow control.





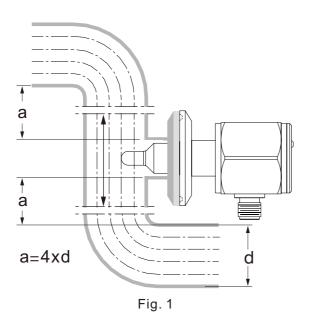
### **SPECIFICATION**





### **INSTALLATION**

- (1). "a" has to be 4 times bigger than the internal diameter of the pipe, "d". (See Fig. 1).
- (2). Liquid inside the pipe must be bubble-free to ensure alarm working properly. (See Fig. 2).
- (3). When the pipe is not fully filled with liquid, SPS must be installed underneath the pipe, and liquid level has to be higher than the sensing probe. (See. Fig. 3)
- (4). SPS must be screwed tightly at installation to avoid liquid leakage from the pipe and cause danger. SPS can be installed at any angle. For best sensitivity and response speed, please refer to the installation in Fig. 4.
- (5). For liquid that contains impurities or particle, please install a filter upstream to protect SPS from being crashed by impurities.



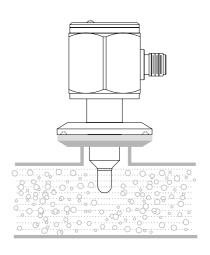


Fig. 2

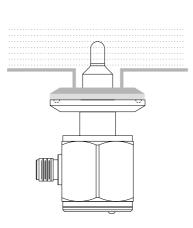


Fig. 3

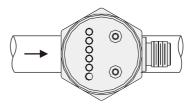


Fig. 4



### **CONNECTOR DIAGRAM**

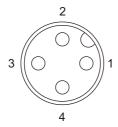


Fig. 5. Electrical Connection Diagram (NPN & PNP Output)



Fig.6

### **WIRING**

3-wire

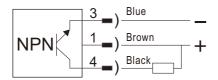


Fig. 7, NPN Output

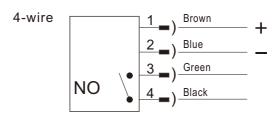


Fig. 10, Relay Output (NO)

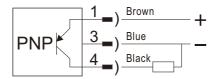


Fig. 8, PNP Output

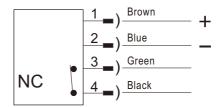
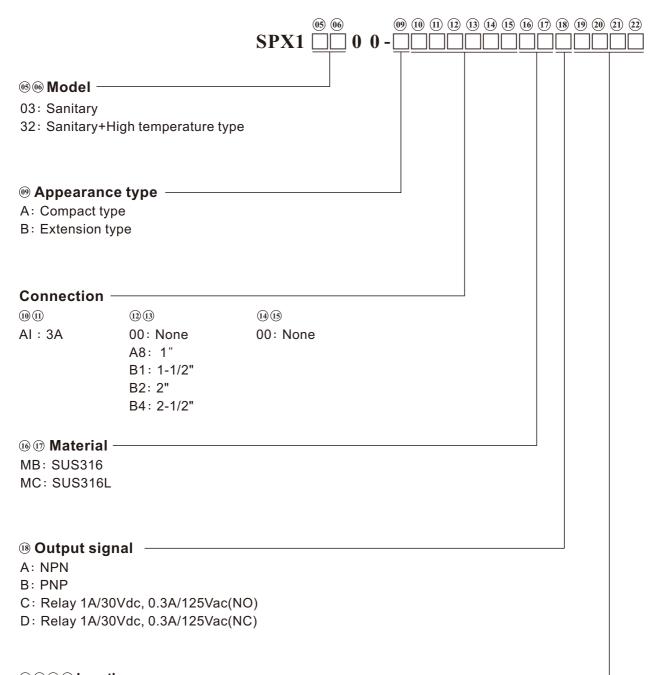


Fig. 11, Relay Output (NC)



# MODEL / NUMBER ORDER CODE COMPARISON TABLE / ORDERING INFORMATION

Model Number	Order Code
SPS200	SPX10300-A
SPS201	SPX10300-B
SPS202	SPX13200-A



(19)	(20)	(21)	(22)	Len	gt	h
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Code	Probe Length
0025~0200	25~200mm



# Global Network



#### Asia

#### Taiwan

### FineTek Co., Ltd. - Taipei Head Quarter

No.16, Tzuchiang St., Tucheng Industrial Park New Taipei City 236, Taiwan TEL: 886-2-2269-6789

TEL: 886-2-2269-6789 FAX: 886-2-2268-6682 EMAIL: info@fine-tek.com

#### China

### Fine automation Co., Ltd. - Shanghai Factory

No.451 DuHui Rd, MinHang District, Shanghai,

China 201109 TEL: 86-21-6490-7260 EMAIL: info.sh@fine-tek.com

#### Singapore

### FineTek Pte Ltd. - Singapore Office

No. 60 Kaki Bukit Place, #07-06 Eunos Techpark 2 Lobby B, Singapore 415979 TEL: 65-6452-6340

EMAIL: info.sg@fine-tek.com

#### Indonesia

#### FineTek Co., Ltd. - Indonesia Office

Ruko Golden 8 Blok H No.38 Gading Serpong, Tangerang, Indonesia TEL: 62 (021)-2923-1688 EMAIL: info.id@fine-tek.com

### Malaysia

### FineTek Co., Ltd. - Malaysia Office

8-05, Plaza Azalea, Persiaran Bandaraya, Seksyen 14, 40000 Shah Alam, Selangor, Malaysiac

TEL: 603-5524-7168 EMAIL: info.my@fine-tek.com

### North America

#### California, U.S.

### Aplus Finetek Sensor Inc. - US Office

355 S. Lemon Ave, Suite D, Walnut, CA 91789

TEL: 1 909 598 2488 FAX: 1 909 598 3188 EMAIL: info@aplusfine.com

#### Illinois, U.S.

#### Aplus Finetek Sensor Inc.

TEL: 1 815 632-3132 FAX: 1 815 716 8464 EMAIL: info@aplusfine.com

### Europe

#### Germany

### FineTeK GmbH - Germany Office

Frankfurter Str. 62, OG D-65428 Ruesselsheim, Germany TEL: +49-(0)6142-17608-0 FAX: +49-(0)6142-17608-20 EMAIL: info@fine-tek.de

### Mütec Instruments GmbH - Germany Office

Bei den Kämpen 26

21220 Seevetal-Ramelsloh, Germany

TEL: + 49 (0)4185-8083-0 FAX: + 49 (0)4185-8083-80 EMAIL: muetec@muetec.de



Distributor:	