

Tuning Fork Level Switch



PRODUCT INTRODUCTION

WORKING PRINCIPLE

The tuning fork of level switch operated by using two piezoelectric elements built-in on vibration tube. The first piezoelectric element triggered by pulse signal that created from circuit to transport vibration energy out, and the other piezoelectric element receives the vibration and transmits it to output electric signal. While the probe contacts material, it will cause the frequency change of output signal and the vibration will hold and send out the relay on at the same time. Tuning fork of level switch provides reliable & maintenance-free for bulk solids. Just a simple mounting and calibration procedure that keep your facility in save and monitoring. This device can withstand fiercely lateral loads and static electricity.

For friendly use, Fail-safe is equipped as standard to prevent malfunction caused by power shortage.

FEATURE

- Glass window, to review power supply and output directly without having to take off enclosure cover (SC 3 series).
- Dual insulation can reduce damage on PCB board caused by temperature, humidity, and condensation effects.
- Wide voltage supply range 20~250, 50~60Hz Vac/ Vdc.
- SPDT Relay output, SSR MOSFET output.
- No calibration required, easy use, sturdy and durable design.
- High / Low failure safe modes.
- Sensitivity adjustment is abailable for different density of media. Fine power can be detected.
- Suitable for liquid, power, solid applications.

APPLICATION

- Most materials in powder can be measurable, includes the grounded coffee, milk power, chocolate, coal ash, bulk, sugar, salt, wheat, grains, glass debris, plastic pellet, cement
- Sludge level detection in waste water

The SC series detects the min. and max of level in bins, silos and hoppers, filled with powdered materials. The following list shows its applications.

Solid Level Detection

- * Powdered milk
- * Frozen potato chips
- * Beans
- * Sugar
- * Sweets
- * Coffee beans
- * Coffee Powder
- * Tea
- * Salt
- * Flour (in a flour mill)
- * Foundry sand
- * Spices
- * Animal food
- * Pellets

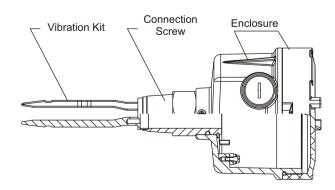
- * Peanuts
- * Tobacco
- * Wood shavings
- * Chalk
- * Stearin chips
- * Powdered cellulose
- * Glass fine power
- * Granular plastics
- * Gravel
- * Powdered clay
- * Polystyrene powder
- * Styrofoam
- * Soda
- * Soot dry

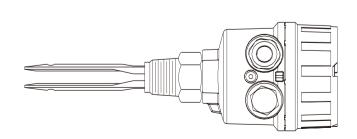
For Liquid:

- * Water & Solutions
- * General Purpose Solvent
- * Petroleum
- * Oil
- * Heavy oil

- * Ink
- * Corrosive liquid
- * Cream
- * Drink & Beverage

CONSTRUCTURE







SPECIFICATION

Dimensions (Unit:mm)	105 038 1"PT	105 \$\phi_{38}\$ 105 1"PT	105 30 1"PT				
Model No.	SC2400/10 [DIN Connector]	SC2400/10 [ASI Connector]	SC2400/10 [Cable Wire Type]				
Supply Voltage & Output		250Vac / Vdc 2 wire Contactless ele 1 □ :12~55 Vdc 3 wire PNP/ NPN C					
Fork Length		100mm					
Operating Temp. In Ambient Air		-40~60°C					
Storage Temp.		-40~70°C					
Operating Temp. In Bin	SC24□□: -40~+100°C SC24□□T: -40~+150°C						
Operation Humidity		80% RH non-condensed					
Operation Pressure		Maximum 40 Bar					
Min. material density sensed	Liquid:	Solid: density: ≥0.07g/cm³ density: ≥0.7g/cm³ Viscosity: 1~10	000 cSt				
Magnetic testing	Output function tes	t performed by putting magnets nea	r the indicated spot				
Status indication		Green light:indicate power supply Red light:indicate operating mode					
Housing material		SUS 304					
Fork Material		316L					
IP Protection	IP65	IP67	IP67				
Mounting		1" PT					
Conduit	Valve plug DIN 43650	Valve plug DIN 43650 ASI Cable connector					



MINI TUNING FORK LEVEL SWITH

Dimensions (Unit:mm)	105 \$\phi_{38}\$ HEX38 3/4PT 40	M12 M12 M12 M38 105 HEX38 36.5 3/4PT 40 40 16	φ6 φ38 105 HEX38 36.5 3/4PT				
Model No.	SC2800/2810 [DIN Connector]	SC2800/2810 [ASI Connector]	SC2800/2810 [Cable Wire Type]				
Supply Voltage & Output		0,50/60Hz Vac/Vdc 2 wire Contactless 281⊡:12~48 Vdc 3 wire PNP/ NPN C					
Fork Length	40mm						
Operating Temp. In Ambient Air		-40°C~60°C					
Storage Temp.		-40°C~70°C					
Operating Temp. In Bin		-40°C~150°C					
Operation Humidity		80% RH non-condensed					
Operation Pressure		-1~600PSI (40BAR)					
Min. material density sensed	Liqui	Solid: density: ≥0.07g/cm³ d: density: ≥0.7g/cm³ Viscosity:1~100	000 cSt				
Magnetic testing	Output function te	est performed by putting magnets nea	r the indicated spot				
Status indication		Green light:indicate power supply Red light:indicate operating mode					
Housing material	SUS 304						
Fork Material		316L					
IP Protection	IP65	IP67	IP67				
Mounting		3/4"PT					
Conduit	Valve plug DIN 43650 ASI Cable connector						



SPECIFICATION

Dimensions (Unit:mm)	108 1/2"NPT 20 25 1" PT 427	φ27.2 250mm~3M φ27.2 1/2"NPT 250mm~3M	φ113 108 1/2"NPT 20 1"PT φ29				
Model No.	SC1400 [Standard Type]	SC1410 [Tuning Fork Ultra Extension Type]	SC1420 [Tuning Fork Extension Type]				
Level Sensor Housing		Aluminum / IP65					
Probe Construction		316L					
Mounting		1"PT					
Conduit		1/2"NPT×2					
Max. Vertical load on rod.		177in.Lbs(20Nm)					
Operating Pressure.		-1~600PSI (40BAR)					
Power Supply		20~250,50/60Hz Vac/Vdc					
Power Consumption		10VA					
Operating Temp. In Ambient Air		-40°C~60°C					
Operating Temp. In Bin	-40°C~130°C						
Signal Output	Relay, SPDT, 5A/250Vac/ 28Vdc, 1 set or 2 set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1 set or 2 set						
Min. material density sensed	Solid:≥0.07g/cm³, Liquid: ≥0.7g/cm³						
Time Delay	0.6 S	0.6 Second / Operate; 1~3 Seconds / Reset					
Vibrating Frequency.		350~370Hz					
Selectable Fail-safe		Hi./ Lo.					
Selectable Sensitivity		Hi./ Lo.					



SPECIFICATION

Dimensions (Unit:mm)	φ113 108 1/2"NPT	## ## ## ## ## ## ## ## ## ## ## ## ##			
Model No.	SC1540 【Corrosion Proof Type】	SC1600 [Sanitary Type]			
Level Sensor Housing	Aluminu	m / IP65			
Probe Construction	316L Coating TEFLON	316L			
Mounting	Flange 1"(min.)	2" Sanitary			
Conduit	1/2"NPT×2				
Max. Vertical load on rod.	177in.Lbs(20Nm)				
Operating Pressure.	-1~600PSI (40BAR)				
Power Supply	20~250	0Vac/dc			
Power Consumption	10VA				
Operating Temp. In Ambient Air	-40°C	:~60°C			
Operating Temp. In Bin	-40°C	~130°C			
Signal Output	Relay, SPDT, 5A/250Vac/ 28Vdc, 1 set or 2 set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1 set or 2 set				
Min. material density sensed	Solid: ≥0.07g/cm³, Liquid: ≥0.7g/cm³				
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset				
Vibrating Frequency.	350~370Hz				
Selectable Fail-safe	Hi./ Lo.				
Selectable Sensitivity	Hi./ Lo.				



SPECIFICATION (Multi-Function Tuning Fork Level Switch)

Dimensions (Unit:mm)	105 1/2"PF 1" PT 25 \$\phi 27 \tag{2}\$ 105	105 1/2"PF 20 130~250mm	φ27.2- 250mm~3M				
Model No.	SC3400 [Standard Type]	SC3410 【Tuning Fork Extension Type】	SC3420 [Tuning Fork Ultra Extension Type]				
Level Sensor Housing		Aluminum / IP65					
Probe Construction		316L					
Mounting		1"PT					
Conduit		1/2"PF×2					
Max. Vertical load on rod.		177in.Lbs(20Nm)					
Operating Pressure.		-1~600PSI (40BAR)					
Power Supply	20~250,50/60Hz Vac/Vdc						
Power Consumption		10VA					
Operating Temp. In Ambient Air		-40°C~60°C					
Operating Temp. In Bin	-40°C~130°C						
Signal Output	Relay, SPDT, 5A/250Vac/ 28Vdc , 1set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1set						
Min. material density sensed	Solid:density: ≥0.07g/cm³ Liquid:density: ≥0.7g/cm³ Viscosity:1~10000 cSt						
Time Delay	0.6	0.6 Second / Operate; 1~3 Seconds / Reset					
Vibrating Frequency.		350~370Hz					
Selectable Fail-safe		Hi./ Lo.					
Selectable Sensitivity		Hi./ Lo.					



SPECIFICATION (Mult-Function Tuning Fork Level Switch)

Dimensions (Unit:mm)	105 1/2"PF 20 105	105 1/2"PF 20 105	φ84 - φ84 - 105 -				
Model No.	SC3440 [Corrosion Proof Type]	SC3450 [Sanitary Type]	SC3800 [Mult-Function Mini Type]				
Level Sensor Housing		Aluminum / IP65					
Probe Construction	316L Coating TEFLON	316L	316L				
Mounting	Flange 1"(min.)	2" Sanitary	3/4" PT(Default)				
Conduit	1/2"PF X 2						
Max. Vertical load on rod.		177in.Lbs(20Nm)					
Operating Pressure.		-1~600PSI (40BAR)					
Power Supply		20~250,50/60Hz Vac/Vdc					
Power Consumption		10VA					
		-40°C~60°C					
	-40°C	C~130°C	-40°C~150°C				
Signal Output	Relay, SPDT, 5A/250Vac/ 28Vdc, 1set Relay, SPDT, 5A/250Vac SSR(MOSFET) 400mA/60 Vac/ Vdc, 1set NPN/PNP(MosFET):400m/60Vac/						
Min. material density sensed	Relay, SPDT, 5A/250Vac/ 28Vdc, 1set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1set						
Time Delay	Solid: density: ≥0.07g/cm³ Liquid: density: ≥0.7g/cm³ Viscosity:1~10000 cSt						
Vibrating Frequency.		350~370Hz					
Selectable Fail-safe		Hi./ Lo.					
Selectable Sensitivity		Hi./ Lo.					



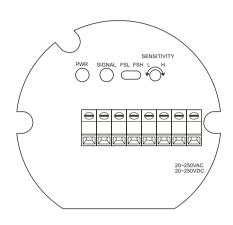
T130°C or T95°C or T80°C

Dimensions (Unit:mm)	108 1/2"NPT 20 105 105	φ27.2 — 250mm~3M φ27- 108 REPS EX				
Model No.	SC1740 [Standard Type]	SC1741 [Tuning Fork Ultra Extension Type]				
Level Sensor Housing	Aluminum / NEPSI Ex d IIC T3~T6 / 🐼 II 2G Ex d IIB T4					
Probe Construction	316L					
Mounting	1"PT	1-1/4"PT				
Conduit	1/2"NPT×2					
Max. Vertical load on rod.	177in.Lbs(20Nm)					
Operating Pressure.	-1~600PSI (40BAR)					
Power Supply	20~250,50/60Hz Vac/Vdc					
Power Consumption	10VA					
Operating Temp. In Ambient Air	-40°C~60°C					
Operating Temp. In Bin	-40°C~130°C					
Signal Output	Relay, SPDT, 3A/250Vac/ 28Vdc, 1 set or 2 set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1 set or 2 set					
Min. material density sensed	Solid: ≥0.07g/cm³, Liquid: ≥0.7g/cm³					
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset					
Vibrating Frequency.	350~370Hz					
Selectable Fail-safe	Hi./ Lo.					
Selectable Sensitivity	Hi./ Lo.					



TERMINAL / SENSITIVITY ADJUSTMENT (SPDT TYPE)

SC1400X, SC1410X, SC1420X, SC1540X, SC1600X, SC1740X, SC1741X



Terminal Function

• L+, N-: Power Supply

· NC, COM, No: Relay Output

• RT1, RT2: Remote-Test

・ ゚゙ ゙゙゙゙゙゙゙゙゙゙゙゙゙゙: SSR(MOSFET) Output

Fail-Safe High / Low Protection

FSH (Fail-Safe High) Protection:

Switch to FSH mode.

Normal Status: The signal lamp is on. It means that the tuning fork switch does not sense the material and the relay is conductive.

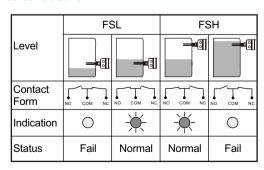
Failure: When the power shuts down, the signal lamp is off. It means that the tuning fork switch is voided and the relay is not conductive.

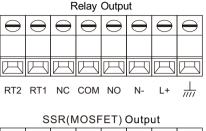
FSL (Fail-Safe Low) Protection:

Switch to FSL mode.

Normal Status: The signal lamp is on. The tuning fork switch senses the material and the relay is conductive

Failure: When the power shuts down, the signal lamp is off. The tuning fork switch is voided and the relay is not conductive.





	SSR(MOSFET) Output						
Θ	\ominus	\ominus	\ominus	\ominus	\bigcirc	\bigcirc	\ominus
四	四	囚	H	四	K	H	円
RT2	RT1		ź T	Ž.	N-	L+	<u> </u> ///

Panel Function

- PWR: Power Supply (Green Light)
- SIGNAL: Output Indication (Red Light)
- FSH: Power On. The signal lamp is on and the relay is conductive. While the tuning fork switch senses the material, the signal lamp is off and relay is not conductive.
- FSL: Power On. The signal lamp is off and the relay is not conductive. While the tuning fork switch senses the material, the signal lamp is on and relay is conductive.
- SENSITIVITY L: Low Sensitivity
- SENSITIVITY H: High Sensitivity

Sensitivity Adjustment

The SENSITIVITY is located on the right side of the panel. The user is able to do the minor adjustment by the screw driver. If it turns to H position clockwise, the sensitivity increases; if it turns to L position anti-clockwise, the sensitivity decreases. The sensitivity is originally set at max. value. The switching point is at 15mm from tip of tuning fork switch.

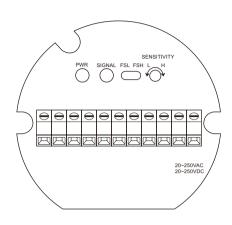
The switching point position will be changed by the sensitivity value. If the sensitivity adjusts to lower value, the switching point position is moving backward; if the sensitivity adjusts to high value, the switching point position is moving forward. The changing range of switching point is about 60mm.

For example, if the switching point needs to be moved backward by 30mm, the user needs to adjust SENSITIVITY anti-clockwise by 10 turns. In general case, it is no need for sensitivity adjustment.



TERMINAL / SENSITIVITY ADJUSTMENT (DPDT TYPE)

SC1400X, SC1410X, SC1420X, SC1540X, SC1600X, SC1740X, SC1741X



Terminal Function

• L+, N-: Power Supply

• NC1, COM1, NO1: Relay Output

• NC2, COM2, NO2: Relay Output

• RT1, RT2: Remote-Test

• 'ಸ್ಟ್ಸ್': 1st SSR(MOSFET) Output 'ಸ್ಟ್ಸ್': 2st SSR(MOSFET) Output

Fail-Safe High / Low Protection

FSH (Fail-Safe High) Protection:

Switch to FSH mode.

Normal Status: The signal lamp is on. It means that the tuning fork switch does not sense the material and the relay is conductive.

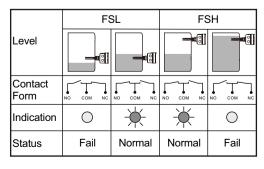
Failure: When the power shuts down, the signal lamp is off. It means that the tuning fork switch is voided and the relay is not conductive.

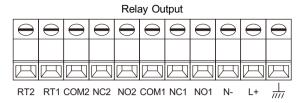
FSL (Fail-Safe Low) Protection:

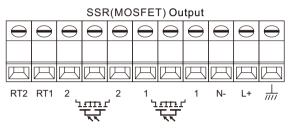
Switch to FSL mode.

Normal Status: The signal lamp is on. The tuning fork switch senses the material and the relay is conductive.

Failure: When the power shuts down, the signal lamp is off. The tuning fork switch is voided and the relay is not conductive.







Panel Function

- PWR: Power Supply (Green Light)
- SIGNAL: Output Indication (Red Light)
- FSH: Power On. The signal lamp is on and the relay is conductive. While the tuning fork switch senses the material, the signal lamp is off and relay is not conductive.
- FSL: Power On. The signal lamp is off and the relay is not conductive. While the tuning fork switch senses the material, the signal lamp is on and relay is conductive.
- SENSITIVITY L: Low Sensitivity
- · SENSITIVITY H: High Sensitivity

Sensitivity Adjustment

The SENSITIVITY is located on the right side of the panel. The user is able to do the minor adjustment by the screw driver. If it turns to H position clockwise, the sensitivity increases; if it turns to L position anti-clockwise, the sensitivity decreases. The sensitivity is originally set at max. value. The switching point is at 15mm from tip of tuning fork switch.

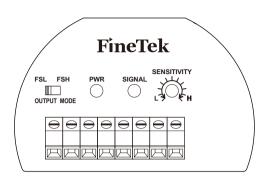
The switching point position will be changed by the sensitivity value. If the sensitivity adjusts to lower value, the switching point position is moving backward; if the sensitivity adjusts to high value, the switching point position is moving forward. The changing range of switching point is about 60mm.

For example, if the switching point needs to be moved backward by 30mm, the user needs to adjust SENSITIVITY anti-clockwise by 10 turns. In general case, it is no need for sensitivity adjustment.



TERMINAL / SENSITIVITY ADJUSTMENT (MULTI-FUNCTION TYPE)

SC3400X, SC3410X, SC3420X, SC3450X



Terminal Function

• L+, N-: Power Supply

• NC, COM, No: Relay Output

• RT1, RT2: Remote-Test

• ់ដ្ឋាៈ: SSR(MOSFET) Output

Fail-Safe High / Low Protection

FSH (Fail-Safe High) Protection:

Switch to FSH mode.

Normal Status: The signal lamp is on. It means that the tuning fork switch does not sense the material and the relay is conductive.

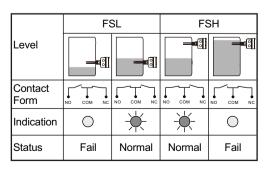
Failure: When the power shuts down, the signal lamp is off. It means that the tuning fork switch is voided and the relay is not conductive.

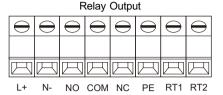
FSL (Fail-Safe Low) Protection:

Switch to FSL mode.

Normal Status: The signal lamp is on. The tuning fork switch senses the material and the relay is conductive

Failure: When the power shuts down, the signal lamp is off. The tuning fork switch is voided and the relay is not conductive.





SSR(MOSFET) Output							
Θ	\bigcirc	\bigcirc	\bigcirc	\ominus	\bigcirc	\bigcirc	\ominus
四	H	四	H	四	H	K	四
L+	N-	741	<u> </u>	NG	PE	RT1	RT2

Panel Function

- PWR: Power Supply (Green Light)
- SIGNAL: Output Indication (Red Light)
- FSH: Power On. The signal lamp is on and the relay is conductive. While the tuning fork switch senses the material, the signal lamp is off and relay is not conductive.
- FSL: Power On. The signal lamp is off and the relay is not conductive. While the tuning fork switch senses the material, the signal lamp is on and relay is conductive.
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The switching point position will be changed by the sensitivity value. If the sensitivity adjusts to lower value, the switching point position is moving backward; if the sensitivity adjusts to high value, the switching point position is moving forward. The changing range of switching point is about 60mm.

For example, if the switching point needs to be moved backward by 30mm, the user needs to adjust SENSITIVITY anti-clockwise by 10 turns. In general case, it is no need for sensitivity adjustment.



WIRING DIAGRAM DETAILS

SC240X (Two wires) wiring

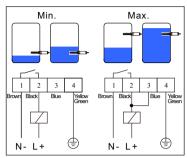
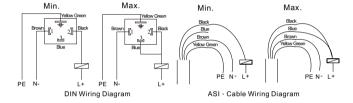


Figure 1 Two wires wiring



Wiring

Power can be AC/DC switching. Two wires are connected with terminals (L+/N-) as in Figure 1.

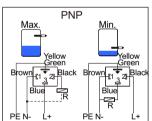
Low (Min.) Mode:

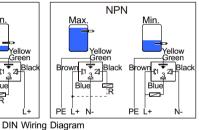
Pin 1 (Brown) is connected to N-. Pin 2 (Black) is connected to L+ with relay. Pin 4 (Yellow Green) connects to tank ground.

High (Max.) mode:

Pin 1 (Brown) is connected to N-. Pin 3 is connected to pin 2 (Black) to L+ with Relay . Pin 4 (Yellow Green) connects to tank ground.

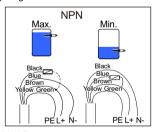
SC240X (Two wires) wiring





PNP
Max.

Black
Blue
Brown
Vellow Green



ASI · Cable Wiring Diagram
Figure 2 PNP / NPN Output Wiring Diagram

Wiring

Power supply is for DC only. Output is PNP / NPN. Please see Figure 2.

PNP wiring:

High(Max.) Mode:

Pin 1(Brown) connects to N-. Pin 3 (Blue) connects to L+. To output, it is pin 2. (Black) connects to N- with relay. Pin 4 (Yellow Green) connects to tank ground.

Low(Min.)Mode:

Pin 1 (Brown) connects to N-. Pin 2 (Black) connects to L+. To output, Pin 3 (Blue) connects to N- with relay. Pin 4 (Yellow Green) should contact to tank ground.

NPN wiring:

High(Max.) Mode:

Pin 1 (Brown) connects to L+. Pin 3 (Blue) connects to N-. To output, Pin 2 (Black) connects to L+ with relay. Pin 4(Yellow Green) should contact to tank ground.

Low(Min.)Mode:

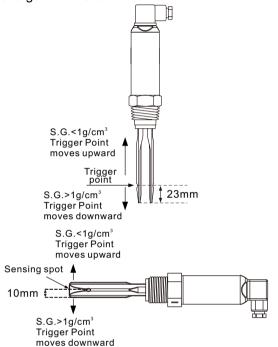
Pin1 (Brown) connects to L+. Pin 2 (Black) connects to N-. To output Pin 3 (Blue) connects to L+ with relay. Pin 4 (Yellow Green) should contact to tank ground.



TUNING AND INDICATION DETAILS

Fork Trigger Point

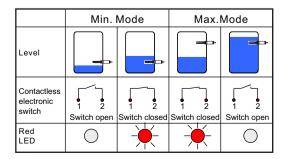
SC2409 fork trigger point is shown as Figure 3 below. The testing medium is water(S.G.=1 g/cm³), and its trigger point is about 23mm from the fork tip. If testing medium with S.G (specific gravity) lower than 1g/cm³ (water), the trigger point would increase. Similarly, the trigger point will downward while the S.G is large than water.



Output Status for Relay

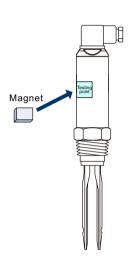
Low (Min.) Mode: Tuning fork switch will be active after 3 seconds while power on. Relay is on NO status and red LED indication is off. When tuning fork is covered by testing medium, the vibration will stop and relay becomes NC status. Red LED indication then is on.

High(Max.) Mode: Tuning fork switch will be active after 3 seconds while the power on. Relay is on NC status and red LED indication is on. When tuning fork covered by testing medium, the vibration stops and relay becomes NO status. Red LED indication is on.



Magnetic Test

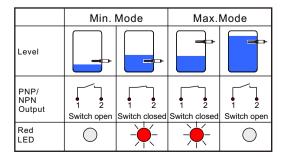
After the switch has installed and power tested, magnetic switch can be performed accordingly. Output status will switch from status of NO. to NC. or NC to NO. and red LED would indicate the vibration status by on / off. When magnet is pulled away from the housing, red LED would return as default while fork continues to vibrate. By this verification, user can confirm the wiring and function are correct or not.



Output Status for PNP / NPN Transistor

Low(Min.) Mode: Tuning fork switch will be active after 3 seconds while power on. Output transistor is on NO status and red LED indication is off. When tuning fork covered by testing medium, vibration will stop and output transistor becomes NC status. Red LED indication is on.

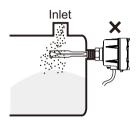
High(Max.) Mode: Tuning fork switch will be active after 3 seconds while power on. Output transistor is on NC status and red LED indication is on. When tuning fork covered by testing medium, vibration will stop and output transistor becomes NO status. Red LED indication is off.





INSTALLATION FOR TUNING FORK

 Can be applied for high viscosity fluid and power Do not install near around material inlet.

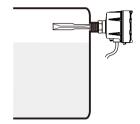


Vertical Installation:

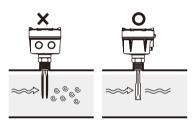
1. Depends on the sensitivity tuning, user should note the switching point is triggered around 15mm from the tip of fork.



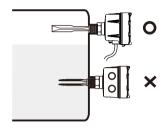
2. Wiring port faces downward recommended.



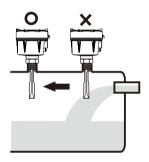
3. Consistence of the wiring port direction for multituning fork installation



3.Consistence of the wiring port direction and always in downward direction for multi-tuning fork



3. Do not install near material inlet.





ORDER INFORMATION



1600: Tuning Fork Sanitary Type

1540: Tuning Fork Corrosion Proof Type

1740: Explosion Proof Tuning Fork Standard Type

1741: Explosion Proof Tuning Fork Ultra Extension Type

3400: Multi-Function Tuning Fork Standard Type

3410: Multi-Function Tuning Fork Extension Type

3420: Multi-Function Tuning Fork Ultra Extension Type

3440: Multi-Function Tuning Fork Corrosion Proof Type

3450: Multi-Function Tuning Fork Sanitary Type

3800: Multi-Function Mini Type

POWER & OUTPUT MODULE -

20~250Vac/ Vdc, 50/60Hz R: Relay O/P-EuroType

N: SSR(MOSFET) EuroType Q: Relay O/P x 2 -EuroType M: SSR(MOSFET) x 2 -EuroType

*Multion Funtion version can choose R \(\) N only

MATERIAL (Wetted Part) -

0: SUS304 6: SUS316 L: SUS316L

CONNECTION -

Dimension	Specific	ation
D1"(25A) 31-1/4"(32A) E1-1/2"(40A) F2"(50A) G2-1/2"(65A) H3"(80A) I4"(100A) J5"(125A) K6"(150A) Sothers	N10kg/cm ² O150 Lbs	YPN 25 ZPN 40 Sothers 9Sanitary

LENGTH (L) (UNIT: mm)

0500: below 500mm **1000**: 501~1000mm

1500: 1001~1500mm

- W Use English letter as first code for probe length over 10m.
 A150 represents 15m, A200 represents 20m.

 Output

 Description

 Descr
- * The Probe Length of SC3800 is Fixed.

BEFORE YOU ORDER

- 1. Please affirm the voltage.
- 2. Please affirm the mounting positions.
- 3. Please affirm the material specific gravity (S.G.) value.
- 4. Please affirm whether any bridge block or vibrating motor are attached onto the silo wall.

Tolerance of the total product length is±5mm

Characteristics, specifications and dimensions are subject to change without notice.

Please contact your nearest distributing office for further information.



ORDER INFORMATION

ORDER NO.

24: 100mm 28: 40mm

POWER & OUTPUT MODULE -

0: 20~250Vac / Vdc 2 wire Contactless electronic switch.

1: 12~48 Vdc 3 wire PNP/ NPN Output.

MATERIAL (Wetted Part) -

0: SUS304 6: SUS316 L: SUS316L

MODEL —

0: Standard 1: Extended *SC28 Without Extended.

(High temp. 150°C)

ELECTRICAL CONNECTION -

A: ASI(180°) B: CABLE(90°)

C: CABLE D: Valve plug DIN43650

(ASI Bus & CABLE Wire length are 2M,PVC 24AWG)

CONNECTION -

Dimension	Specification		
C3/4"(25A)SC28 only D1"(25A) E1-1/2"(40A) F2"(50A) G2-1/2"(65A) H3"(80A) I4"(100A) J5"(125A) K6"(150A) SSpecial	M5kg/cm ² N10kg/cm ² O150 Lbs P300 Lbs QPT RPF(G) TBSP UNPT WPN10	XPN16 YPN25 ZPN40 SSpecial	

PROBE LENGTH (UNIT: mm) -

Max Length: 250m EX 0205 : 250m

* The Probe Length of SC2800 is Fixed.

BEFORE YOU ORDER

- 1. Please affirm the voltage.
- 2. Please affirm the mounting positions.
- 3. Please affirm the material specific gravity (S.G.) value.
- 4. Please affirm whether any bridge block or vibrating motor are attached onto the silo wall.

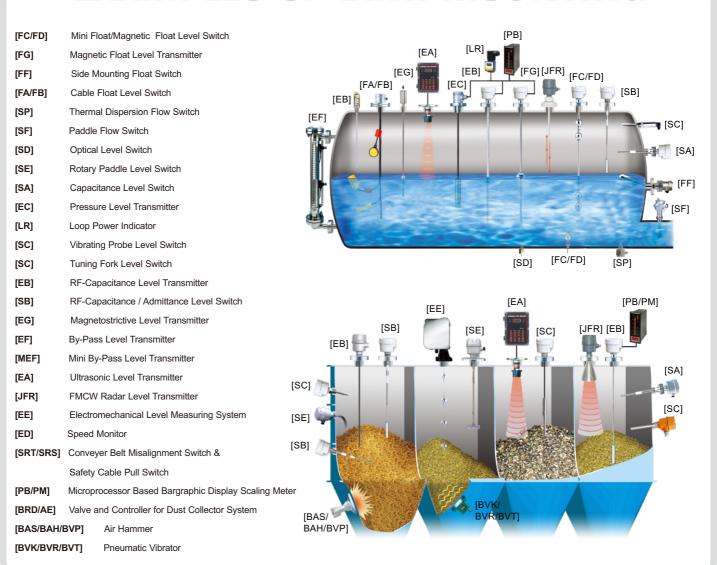
Tolerance of the total product length is±5mm

Characteristics, specifications and dimensions are subject to change without notice.

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EXAMPLES-OF-TANK-MOUNTING



FineTek Co., Ltd.

No.16, Tzuchiang St., Tucheng Industrial Park, New Taipei City 236, Taiwan TEL: +886-2-2269-6789 FAX: +886-2-2268-6682 Email: info@fine-tek.com http://www.fine-tek.com

Fine automation (ShangHai) Co., Ltd.

No.451 DuHui Rd, MinHang District, Shanghai, China 201109 TEL: +86-21-6490-7260 FAX: +86-21-6490-7276 Email: info.sh@fine-tek.com

FineTek Pte Ltd.

No. 11 Kaki Bukit Road 1,#04-01 Eunos Technolink 415939, Singapore TEL: +65-6452-6340 FAX: +65-6734-1878 Email: info.sg@fine-tek.com

FineTeK GmbH

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

