



## Tuning Fork Level Switch

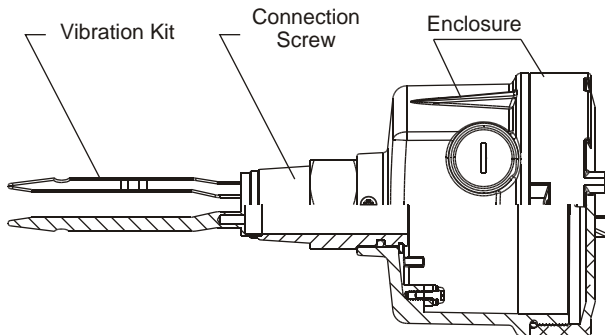
## WORKING PRINCIPLE

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 (YSC 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 available for different density of media. Fine power can be detected.
- | Suitable for liquid, power, solid applications.

## CONSTRUCTURE



## 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

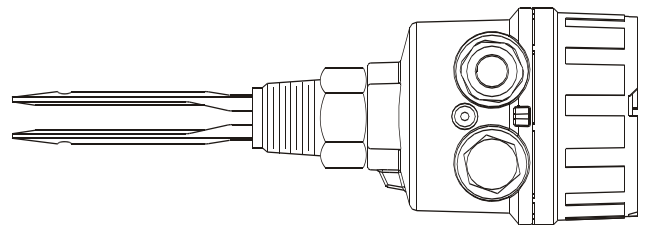
The YSC series detects the min. and max of level in bins, silos and hoppers, filled with powdered materials. The following list shows its applications.

### Solid Level Detection

- |                           |                      |
|---------------------------|----------------------|
| * Powdered milk           | * Peanuts            |
| * Frozen potato chips     | * Tobacco            |
| * Beans                   | * Wood shavings      |
| * Sugar                   | * Chalk              |
| * Sweets                  | * Stearin chips      |
| * Coffee beans            | * Powdered cellulose |
| * Coffee Powder           | * Glass fine power   |
| * Tea                     | * Granular plastics  |
| * Salt                    | * Gravel             |
| * Flour (in a flour mill) | * Powdered clay      |
| * Foundry sand            | * Polystyrene powder |
| * Spices                  | * Styrofoam          |
| * Animal food             | * Soda               |
| * Pellets                 | * Soot dry           |

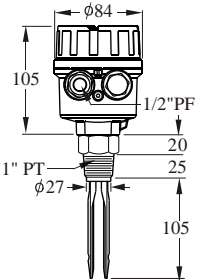
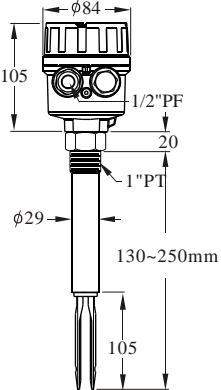
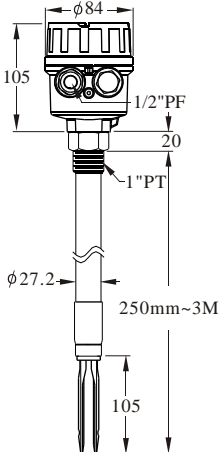
### For Liquid:

- |                           |                    |
|---------------------------|--------------------|
| * Water & Solutions       | * Ink              |
| * General Purpose Solvent | * Corrosive liquid |
| * Petroleum               | * Cream            |
| * Oil                     | * Drink & Beverage |
| * Heavy oil               |                    |



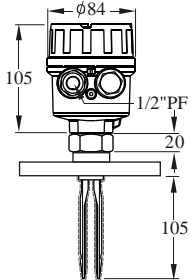
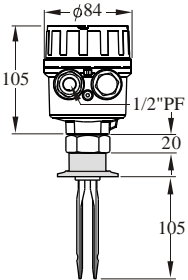
# SPECIFICATION (Multi-Function Tuning Fork Level Switch)

http://www.ymsystem.co.kr  
 e-mail : ymsystem@korea.com  
 Tel: 054-762-5522 Fax: 054-762-5335

Dimensions (Unit:mm)			
Model No.	<b>YSC3400 【Standard Type】</b>	<b>YSC3410 【 Tuning Fork Extension Type】</b>	<b>YSC3420 【 Tuning Fork Ultra Extension Type】</b>
Level Sensor Housing	Aluminum / IP65		
Probe Construction	316L		
Mounting	1"PT		
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		
Operating Temp. In Ambient Air	- 40℃~ 60℃		
Operating Temp. In Bin	- 40℃~ 130℃		
Signal Output	Relay, SPDT, 5A/250Vac/ 28Vdc , 1set SSR(MOSFET) 400mA/60 Vac/ Vdc, 1set		
Min. material density sensed	Solid:density:≥0.07g/cm <sup>3</sup> Liquid:density:≥0.7g/cm <sup>3</sup> Viscosity :1~ 10000 cSt		
Time Delay	0.6 Second / Operate; 1~ 3 Seconds / Reset		
Vibrating Frequency.	350~ 370Hz		
Selectable Fail- safe	Hi./ Lo.		
Selectable Sensitivity	Hi./ Lo.		

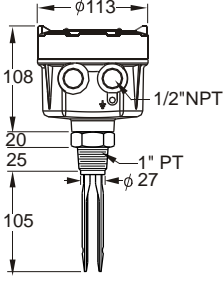
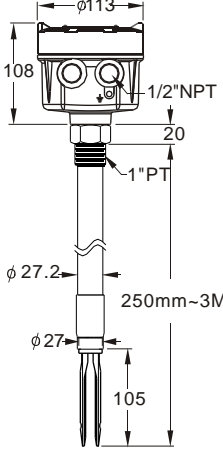
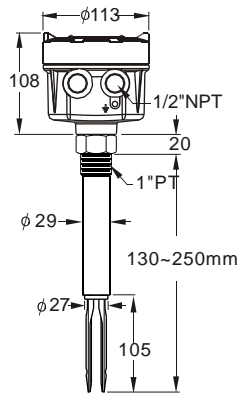
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Dimensions (Unit:mm)		
Model No.	<b>YSC3440</b> <b>【Corrosion Proof Type】</b>	<b>YSC3450</b> <b>【Sanitary Type】</b>
Level Sensor Housing	Aluminum / IP65	
Probe Construction	316L Coating TEFLON	316L
Mounting	Flange 1"(min.)	2" Sanitary
Conduit	1/2"PF 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	
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/cm <sup>3</sup> Liquid: density:≥0.7g/cm <sup>3</sup> Viscosity : 1~10000 cSt	
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset	
Vibrating Frequency.	350~370Hz	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Lo.	

# SPECIFICATION

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Dimensions (Unit:mm)			
Model No.	YSC1400 【Standard Type】	YSC1410 【Tuning Fork Ultra Extension Type】	YSC1420 【Tuning Fork Extension Type】
Level Sensor Housing	Aluminum / IP65		
Probe Construction	316L		
Mounting	1"PT		
Conduit	1/2"NPT 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		
Operating Temp. In Ambient Air	-40℃~60℃		
Operating Temp. In Bin	-40℃~130℃		
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: $\geq 0.07\text{g/cm}^3$ , Liquid: $\geq 0.7\text{g/cm}^3$		
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset		
Vibrating Frequency.	350~370Hz		
Selectable Fail-safe	Hi./ Lo.		
Selectable Sensitivity	Hi./ Lo.		

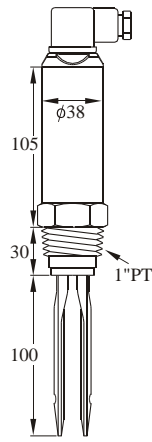
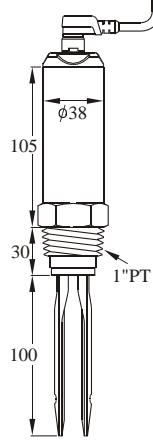
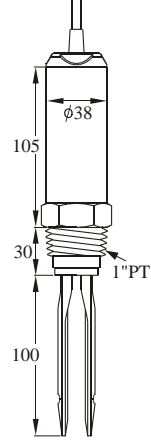
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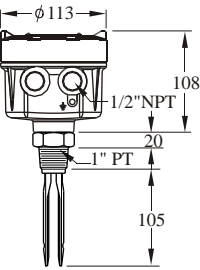

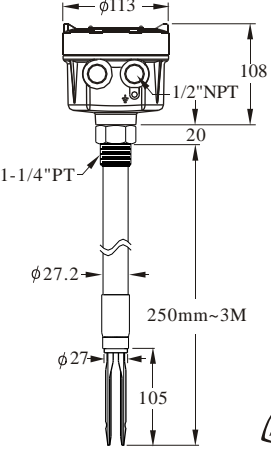

Dimensions (Unit:mm)		
Model No.	<b>YSC1540</b> 【Corrosion Proof Type】	<b>YSC1600</b> 【Sanitary Type】
Level Sensor Housing	Aluminum / IP65	
Probe Construction	316L Coating TEFLON	316L
Mounting	Flange 1"(min.)	2" Sanitary
Conduit	1/2"NPT X 2	
Max. Vertical load on rod.	177in.Lbs(20Nm)	
Operating Pressure.	- 1 ~ 600PSI (40BAR)	
Power Supply	20 ~ 250Vac/dc	
Power Consumption	10VA	
Operating Temp. In Ambient Air	-40℃ ~ 60℃	
Operating Temp. In Bin	-40℃ ~ 130℃	
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/cm <sup>3</sup> , Liquid: ≥0.7g/cm <sup>3</sup>	
Time Delay	0.6 Second / Operate; 1 ~ 3 Seconds / Reset	
Vibrating Frequency.	350 ~ 370Hz	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Lo.	

# SPECIFICATION

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Dimensions (Unit:mm)			
Model No.	<b>YSC2400/10 DIN Connector</b>	<b>YSC2400/10 ASI Connector</b>	<b>YSC2400/10 Cable Wire Type</b>
Supply Voltage & Output	YSC240□ : 20~250Vac / Vdc 2 wire Contactless electronic switch. YSC241□ : 12~55 Vdc 3 wire PNP/ NPN Output.		
Fork Length	100mm		
Operating Temp. In Ambient Air	-40~60 °C		
Storage Temp.	-40~70 °C		
Operating Temp. In Bin	YSC24□□ : -40~+100 °C YSC24□□ T: -40~+150 °C		
Operation Humidity	80% RH non-condensed		
Operation Pressure	Maximum 40 Bar		
Min. material density sensed	<b>Solid:</b> density: ≥0.07g/cm <sup>3</sup> <b>Liquid:</b> density: ≥0.7g/cm <sup>3</sup> Viscosity : 1~10000 cSt		
Magnetic testing	Output function test performed by putting magnets near 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	ASI	Cable connector

# SPECIFICATION

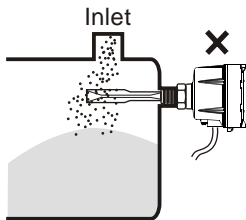
Dimensions (Unit:mm)	 	 
Model No.	<b>YSC1740 【 Standard Type 】</b>	<b>YSC1741 【 Tuning Fork Ultra Extension Type 】</b>
Level Sensor Housing	Aluminum / Ex d IIC T3~T6	
Probe Construction	316L	
Mounting	1"PT	1 - 1/4"PT
Conduit	1/2"NPT X 2	
Max. Vertical load on rod.	177in.Lbs(20Nm)	
Operating Pressure.	-1~600PSI (40BAR)	
Power Supply	20~250,50/60Hz Vac/Vdc	
Power Consumption	10VA	
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: $\geq 0.07\text{g/cm}^3$ , Liquid: $\geq 0.7\text{g/cm}^3$	
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset	
Vibrating Frequency.	350~370Hz	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Lo.	



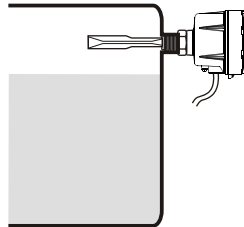
# INSTALLATION FOR TUNING FORK

http://www.ymsystem.co.kr  
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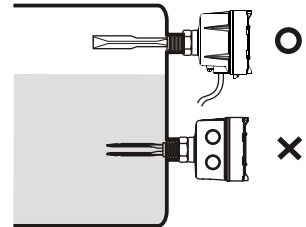
1. Can be applied for high viscosity fluid and power  
 Do not install near around material inlet.



2. Wiring port faces downward recommended.

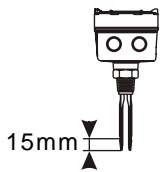


3. Consistence of the wiring port direction and always in downward direction for multi-tuning fork installation.

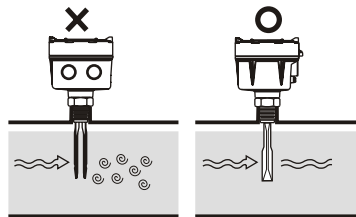


## Vertical Installation:

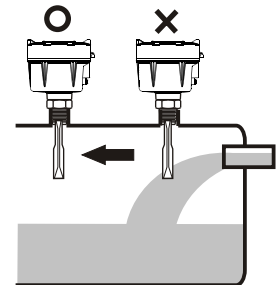
1. Depends on the sensitivity tuning, user should note the switching point is triggered around 15mm from the tip of fork.



3. Consistence of the wiring port direction for multi-tuning fork installation



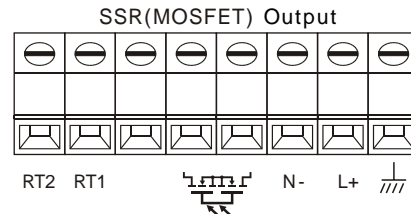
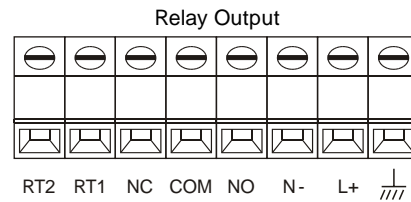
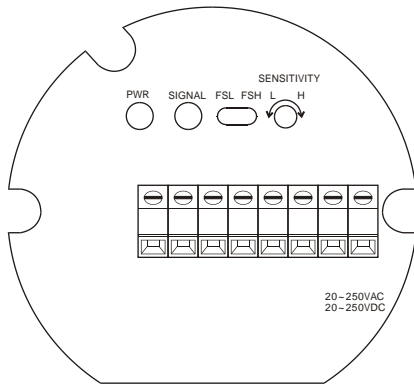
3. Do not install near material inlet.



# TERMINAL / SENSITIVITY ADJUSTMENT (SPDT TYPE)

http://www.ymsystem.co.kr  
 e-mail : ymsystem@korea.com  
 Tel: 054-762-5522 Fax: 054-762-5335

YSC1400X, YSC1410X, YSC1420X, YSC1540X, YSC1600X, YSC1740X, YSC1741X



## Terminal Function

- L+, N- : Power Supply
- NC, COM, No: Relay Output
- RT1, RT2: Remote - Test
- $\perp$  : Ground Connection
- : 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.

Level	FSL		FSH	
Contact Form				
Indication				
Status	Fail	Normal	Normal	Fail

## 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.

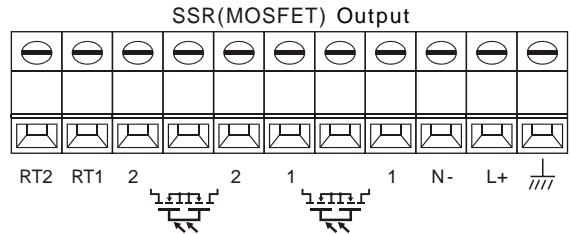
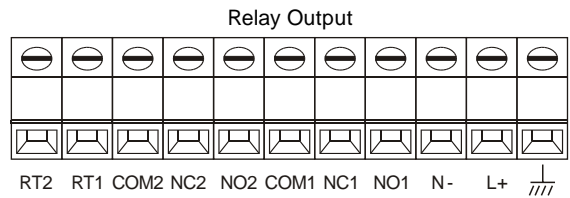
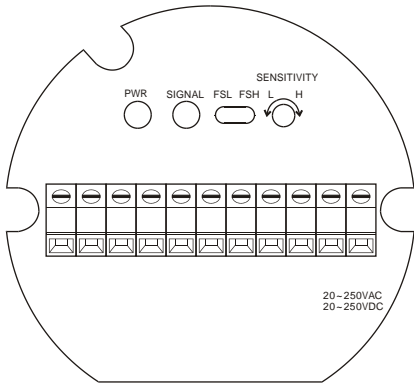
The switching point position will be changed by the sensitivity value. If the sensitivity adjusts to lower value, the switching point position is moving backward; if the sensitivity adjusts to high value, the switching point position is moving forward. The changing range of switching point is about 60mm.

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)

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 Tel: 054-762-5522 Fax: 054-762-5335

YSC1400X, YSC1410X, YSC1420X, YSC1540X, YSC1600X, YSC1740X, YSC1741X



## Terminal Function

- L+, N- : Power Supply
- NC1, COM1, NO1: Relay Output
- NC2, COM2, NO2: Relay Output
- RT1, RT2: Remote-Test
- $\perp$  : Ground Connection
- : 1<sup>st</sup> SSR(MOSFET) Output
- : 2<sup>nd</sup> 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.

	FSL		FSH	
Level				
Contact Form	NO COM NC	NO COM NC	NO COM NC	NO COM NC
Indication	○	☀	☀	○
Status	Fail	Normal	Normal	Fail

## 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.

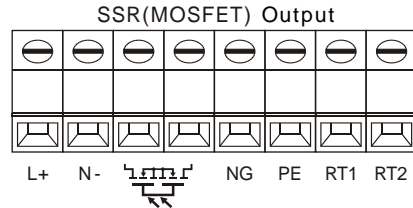
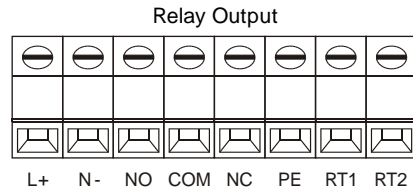
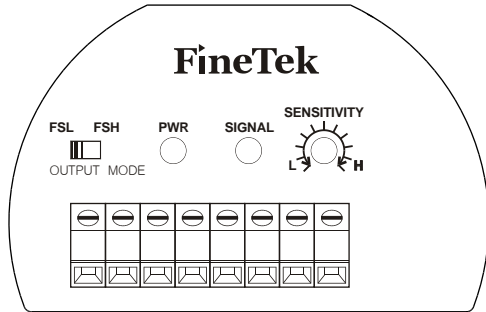
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For example, if the switching point needs to be moved backward by 30mm, the user needs to adjust SENSITIVITY anti-clockwise by 10 turns. In general case, it is no need for sensitivity adjustment.

# TERMINAL / SENSITIVITY ADJUSTMENT (MULTI-FUNCTION TYPE)

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YSC3400X, YSC3410X, YSC3420X, YSC3450X



## Terminal Function

- L+, N- : Power Supply
- NC, COM, No: Relay Output
- RT1, RT2: Remote - Test
- $\perp$  : Ground Connection
- : 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.

Level	FSL		FSH	
Contact Form				
Indication				
Status	Fail	Normal	Normal	Fail

## 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.

# WIRING DIAGRAM DETAILS

## YSC240X (Two wires) wiring

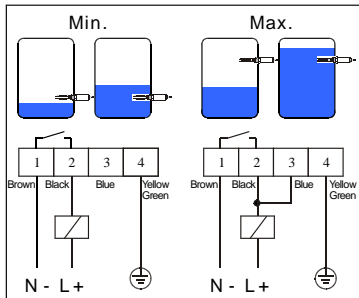
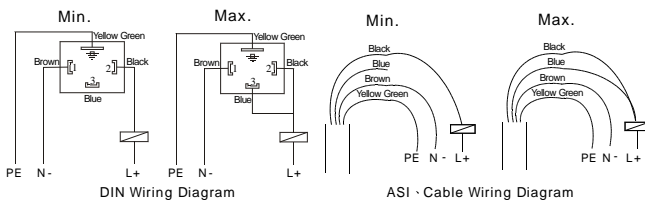


Figure 1 Two wires wiring



### Wiring

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

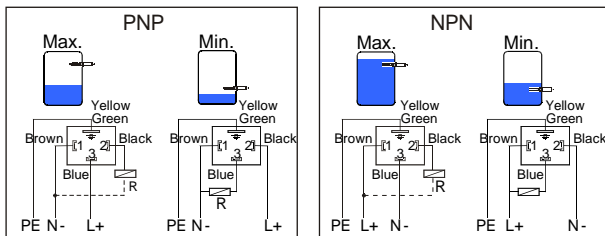
#### Low (Min.) Mode:

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

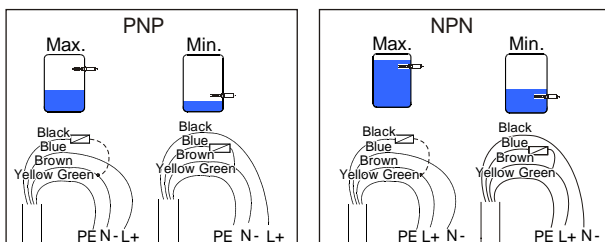
#### High (Max.) mode:

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.

## YSC240X (Two wires) wiring



DIN Wiring Diagram



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:

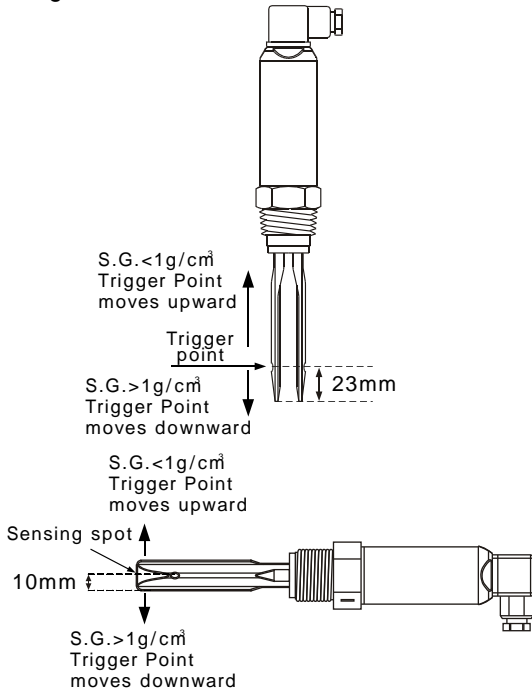
Pin 1 (Brown) connects to L+. Pin 2 (Black) connects to N-. To output Pin 3 (Blue) connects to L+ with relay. Pin 4 (Yellow Green) should contact to tank ground.

# TUNING AND INDICATION DETAILS

http://www.ymsystem.co.kr  
 e-mail : ymsystem@korea.com  
 Tel: 054-762-5522 Fax: 054-762-5335

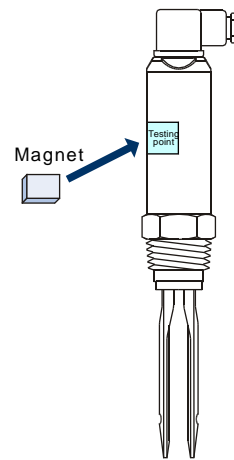
## Fork Trigger Point

YSC2409 fork trigger point is shown as Figure 3 below. The testing medium is water (S.G.=1 g/cm<sup>3</sup>), and its trigger point is about 23mm from the fork tip. If testing medium with S.G (specific gravity) lower than 1g/cm<sup>3</sup> (water), the trigger point would increase. Similarly, the trigger point will downward while the S.G is large than water.



## 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 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.

	Min. Mode		Max. Mode	
Level				
Contactless electronic switch	Switch open	Switch closed	Switch closed	Switch open
Red LED				

## 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.

	Min. Mode		Max. Mode	
Level				
PNP/ NPN Output	Switch open	Switch closed	Switch closed	Switch open
Red LED				

# ORDER INFORMATION

http://www.ymsystem.co.kr  
 e-mail : ymsystem@korea.com  
 Tel: 054-762-5522 Fax: 054-762-5335

**YSC**  (  ) (  )

## ORDER NO.

- 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
- 1400: Tuning Fork Standard Type
- 1410: Tuning Fork Extension Type
- 1420: Tuning Fork Ultra Extension Type
- 1540: Tuning Fork Corrosion Proof Type
- 1600: Tuning Fork Sanitary Type
- 1740: Explosion Proof Tuning Fork Standard Type
- 1741: Explosion Proof Tuning Fork Ultra Extension Type

## POWER & OUTPUT MODULE

- 20~250Vac/ Vdc, 50/60HzR: 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	Specification
D --- 1"(25A)	M --- 5kg/cm <sup>2</sup> Y --- PN 25
3 --- 1-1/4"(32A)	N --- 10kg/cm <sup>2</sup> Z --- PN 40
E --- 1-1/2"(40A)	O --- 150 Lbs      S --- others
F --- 2"(50A)	P --- 300 Lbs      9 --- Sanitary
G --- 2-1/2"(65A)	Q --- PT
H --- 3"(80A)	R --- PF(G)
I --- 4"(100A)	T --- BSP
J --- 5"(125A)	U --- NPT
K --- 6"(150A)	W --- PN 10
S --- others	X --- PN 16

## LENGTH (L) (UNIT: mm)

**0500:** below 500mm

**1000:** 501 ~ 1000mm

**1500:** 1001 ~ 1500mm

⋮

※ 500mm per Unit

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

## 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

http://www.ymsystem.co.kr  
 e-mail : ymsystem@korea.com  
 Tel: 054-762-5522 Fax: 054-762-5335

**YSC**     **0 (T)** -

**ORDER NO.** \_\_\_\_\_

24: 100mm

**POWER & OUTPUT MODULE** \_\_\_\_\_

0: 20~250Vac / Vdc 2 wire Contactless electronic switch.  
 1: 12~55 Vdc 3 wire PNP/ NPN Output.

**MATERIAL (Wetted Part)** \_\_\_\_\_

0: SUS304 6: SUS316 L: SUS316L

**MODEL** \_\_\_\_\_

0: Standard

**(High temp. 150°C)** \_\_\_\_\_

**ELECTRICAL CONNECTION** \_\_\_\_\_

A: ASI(180°) B: CABLE(90°) C: CABLE D: Valve plug DIN43650

**CONNECTION** \_\_\_\_\_

Dimension	Specification
D --- 1"(25A)	M --- 5kg/cm <sup>2</sup> X --- PN16
E --- 1-1/2"(40A)	N --- 10kg/cm <sup>2</sup> Y --- PN25
F --- 2"(50A)	O --- 150 Lbs Z --- PN40
G --- 2-1/2"(65A)	P --- 300 Lbs S --- Special
H --- 3"(80A)	Q --- PT
I --- 4"(100A)	R --- PF(G)
J --- 5"(125A)	T --- BSP
K --- 6"(150A)	U --- NPT
S --- Special	W --- PN10

## 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

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