

SPECIFICATION (Multi-Function Vibrating Probe Level Switch)

Dimensions (Unit:mm)			
Order No.	SC3100 【Standard Type】	SC3110 【Probe Extension Type】	SC3120 【Ultra Extension Type】
Level Sensor Housing	Aluminum / IP65		
Probe Construction	SUS 304 / 316		
Mounting	1"PT		
Conduit	1/2"NPT × 2		
Max. Vertical load on rod.	177in.Lbs(20Nm)		
Operating Pressure.	-1~150PSI (10BAR)		
Power Supply	20~250, 50/60Hz Vac/ Vdc		
Power Consumption	15VA (Max.)		
Operating Temp. In Ambient Air	-10°C~60°C		
Operating Temp. In Bin	-10°C~80°C		
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET) 400mA/60 Vac/ Vdc		
Min. material density sensed	Solid: ≥0.32g/cm ³		
Time Delay	0.6~1 Second / Operate; 2~5 Seconds / Reset		
Vibrating Frequency.	395~405HZ		
Selectable Fail-safe	Hi./ Lo.		
Selectable Sensitivity	Hi./ Mid. / Lo.		

SPECIFICATION (Multi-Function Vibrating Probe Level Switch)

Dimensions (Unit:mm)		
Order No.	SC3300 【Cable Extension Type】	SC3500 【Corrosion Proof Type】
Level Sensor Housing	Aluminum / IP65	
Probe Construction	SUS 304 / 316	SUS 304/316 Coating TEFLON
Mounting	1"PT	Flange 1"(min.)
Conduit	1/2"NPT × 2	
Max. Vertical load on rod.	177in.Lbs(20Nm)	
Operating Pressure.	-1~150PSI (10BAR)	-1~150PSI (40BAR)
Power Supply	20~250, 50/60Hz Vac/ Vdc	
Power Consumption	15VA (Max.)	
Operating Temp. In Ambient Air	-10°C~60°C	
Operating Temp. In Bin	-10°C~80°C	
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET) 400mA/60 Vac/ Vdc	
Min. material density sensed	Solid: $\geq 0.32\text{g/cm}^3$	
Time Delay	0.6~1 Second / Operate; 2~5 Seconds / Reset	
Vibrating Frequency.	395~405HZ	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Mid. / Lo.	

SPECIFICATION

Dimensions (Unit:mm)			
Order No.	SC2100	SC2110	SC2120
Model No.	MV10/11 [Standard Type]	MV20 [Solid Extension Type]	MV21 [Solid Extension Type]
Level Sensor Housing	Aluminum / IP65		
Probe Construction	SUS 304 / 316		
Mounting	1"PT		
Conduit	1/2"NPT × 2		
Max. Vertical load on rod.	177in.Lbs(20Nm)		
Operating Pressure.	-1~150PSI (10BAR)		
Power Supply	20~250, 50/60Hz Vac/ Vdc		
Power Consumption	15VA (Max.)		
Operating Temp. In Ambient Air	-40°C~60°C		
Operating Temp. In Bin	-40°C~80°C		
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET)400mA/60 Vac/ Vdc		
Min. material density sensed	Solid: ≥0.32g/cm ³		
Time Delay	0.6~1 Second / Operate; 2~5 Seconds / Reset		
Remote-test	Yes		
Vibrating Frequency.	395~405HZ		
Selectable Fail-safe	Hi./ Lo.		
Selectable Sensitivity	Hi./ Mid. / Lo.		

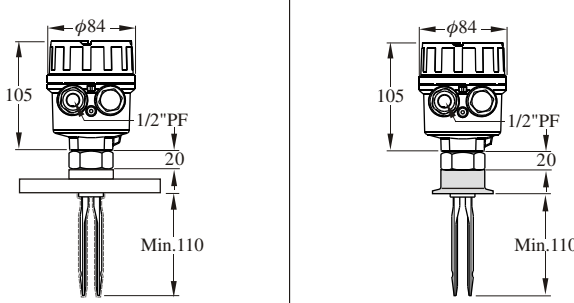
SPECIFICATION

Dimensions (Unit:mm)		
Order No.	SC2300	SC2500
Model No.	MV30 [Cable Extension Type]	MV50 [Corrosion-Proof]
Level Sensor Housing	Aluminum / IP65	
Probe Construction	SUS 304 / 316	SUS 304/316 Coating TEFLON
Mounting	1"PT	Flange 1"(min.)
Conduit	1/2"NPT × 2	
Max. Vertical load on rod.	177in.Lbs(20Nm)	
Operating Pressure.	-1~150PSI (10BAR)	-1~150PSI (10BAR)
Power Supply	20~250, 50/60Hz Vac/ Vdc	
Power Consumption	15VA (Max.)	
Operating Temp. In Ambient Air	-40°C~60°C	
Operating Temp. In Bin	-40°C~80°C	-40°C~80°C
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET)400mA/60 Vac/ Vdc	
Min. material density sensed	Solid: ≥0.32g/cm ³	
Time Delay	0.6~1 Second / Operate; 2~5 Seconds / Reset	
Remote-test	Yes	
Vibrating Frequency.	395~405HZ	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Mid. / Lo.	

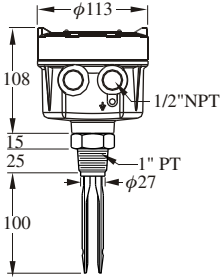
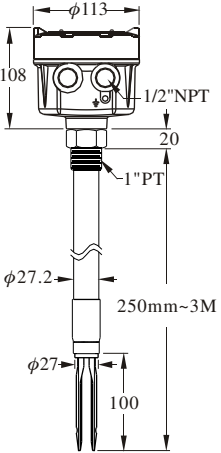
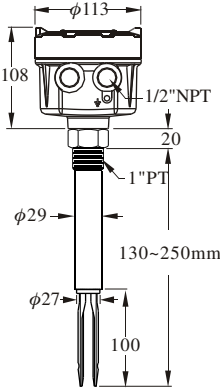
SPECIFICATION (Multi-Function Tuning Fork Level Switch)

Dimensions (Unit:mm)			
Order No.	SC3400 [Standard Type]	SC3410 [Tuning Fork Extension Type]	SC3420 [Tuning Fork Ultra Extension Type]
Level Sensor Housing	Aluminum / IP65		
Probe Construction	SUS 304 / 316		
Mounting	1"PT		
Conduit	1/2"PF × 2		
Max. Vertical load on rod.	177in.Lbs(20Nm)		
Operating Pressure.	-1~150PSI (10BAR)		
Power Supply	20~250,50/60Hz Vac/Vdc		
Power Consumption	10VA		
Operating Temp. In Ambient Air	-10°C~60°C		
Operating Temp. In Bin	-10°C~130°C		
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET) 400mA/60 Vac/ Vdc		
Min. material density sensed	Solid: density: $\geq 0.07\text{g/cm}^3$ Liquid: density: $\geq 0.7\text{g/cm}^3$ 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.		

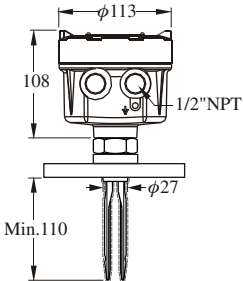
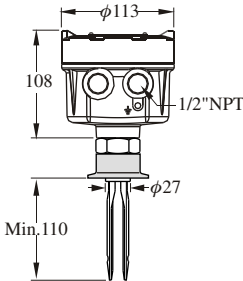
SPECIFICATION(Multi-Function Tuning Fork Level Switch)

Dimensions (Unit:mm)		
Order No.	SC3440 【Corrosion Proof Type】	SC3450 【Sanitary Type】
Level Sensor Housing	Aluminum / IP65	
Probe Construction	SUS 304/316 Coating TEFLON	SUS 304 / 316
Mounting	Flange 1"(min.)	2" Sanitary
Conduit	1/2"PF × 2	
Max. Vertical load on rod.	177in.Lbs(20Nm)	
Operating Pressure.	-1~150PSI (10BAR)	
Power Supply	20~250,50/60Hz Vac/Vdc	
Power Consumption	10VA	
Operating Temp. In Ambient Air	-10°C~60°C	
Operating Temp. In Bin	-10°C~130°C	
Signal Output	Relay, SPDT, 5A/250Vac, PNP/NPN(MOSFET) 400mA/60 Vac/ Vdc	
Min. material density sensed	Solid: density: $\geq 0.07\text{g/cm}^3$ Liquid: density: $\geq 0.7\text{g/cm}^3$ 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.	

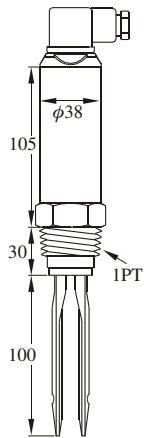
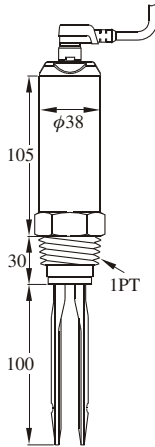
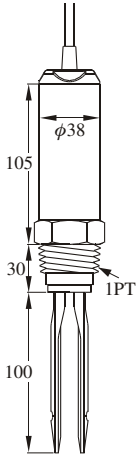
SPECIFICATION

Dimensions (Unit:mm)			
Order No.	SC1400	SC1410	SC1420
Model No.	MV40 [Standard Type]	MV41 [Tuning Fork Extension Type]	MV42 [Tuning Fork Ultra Extension Type]
Level Sensor Housing	Aluminum / IP65		
Probe Construction	SUS 304 / 316		
Mounting	1"PT		
Conduit	1/2"NPT × 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°C~70°C		
Operating Temp. In Bin	-40°C~130°C		
Signal Output	Relay, SPDT, 2A/250Vac Max.		
Min. material density sensed	Solid: ≥0.07g/cm ³ , Liquid: ≥0.7g/cm ³		
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset		
Vibrating Frequency.	355~365HZ		
Selectable Fail-safe	Hi./ Lo.		
Selectable Sensitivity	Hi./ Lo.		

SPECIFICATION

Dimensions (Unit:mm)		
Order No.	SC1540	SC1600
Model No.	MV54 [Corrosion-Proof Type]	MV60 [Sanitary Type]
Level Sensor Housing	Aluminum / IP65	
Probe Construction	SUS 304/316 Coating TEFLON	SUS 304 / 316
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	20~250Vac/dc	
Power Consumption	10VA	
Operating Temp. In Ambient Air	-40°C~70°C	
Operating Temp. In Bin	-40°C~130°C	
Signal Output	Relay, SPDT, 2A/250Vac Max.	
Min. material density sensed	Solid: ≥0.07g/cm ³ , Liquid: ≥0.7g/cm ³	
Time Delay	0.6 Second / Operate; 1~3 Seconds / Reset	
Vibrating Frequency.	355~365HZ	
Selectable Fail-safe	Hi./ Lo.	
Selectable Sensitivity	Hi./ Lo.	

SPECIFICATION

Dimensions (Unit:mm)			
Order No.	SC2400/10 DIN Connector	SC2400/10 ASI Connector	SC2400/10 Cable Wire Type
Supply Voltage & Output	SC240 □:20~250Vac / Vdc 2 wire Contactless electronic switch. SC241 □: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	SC24 □□: -40~+100°C SC24 □□T: -40~+150°C		
Operation Humidity	80% RH non-condensed		
Operation Pressure	Maximum 40 Bar		
Min. material density sensed	Solid: density: $\geq 0.07\text{g/cm}^3$ Liquid: density: $\geq 0.7\text{g/cm}^3$ 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, 316, 304		
IP Protection	IP65 / IP67		
Mounting	1" PT		
Conduit	Valve plug DIN 43650 / Cable connector / ASI		

ORDER INFORMATION

SC () ()

ORDER NO.

3100: Multi-Function Vibrating Probe Standard Type
 3110: Multi-Function Vibrating Probe Extension Type
 3120: Multi-Function Vibrating Probe Ultra Extension Type
 3300: Multi-Function Vibrating Probe Cable Extension Type
 3500: Multi-Function Vibrating Probe Corrosion Proof Type
 2100: MV10/11 Vibrating Probe Standard Type
 2110: MV20 Vibrating Probe Extension Type
 2120: MV21 Vibrating Probe Ultra Extension Type
 2300: MV30 Vibrating Probe Cable Extension Type
 2500: MV50 Vibrating Probe Corrosion Proof 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
 1400: MV40 Tuning Fork Standard Type
 1410: MV41 Tuning Fork Extension Type
 1420: MV42 Tuning Fork Ultra Extension Type
 1540: MV54 Tuning Fork Corrosion Proof Type
 1600: MV60 Tuning Fork Sanitary Type
 1700: MV70 Explosion Proof Vibrating Probe Standard Type
 1701: MV70 Explosion Proof Vibrating Probe Extension Type
 1710: MV71 Explosion Proof Vibrating Probe Ultra Extension Type
 1740: MV74 Explosion Proof Tuning Fork Standard Type
 1741: MV74 Explosion Proof Tuning Fork Ultra Extension Type

POWER & OUTPUT MODULE

20~250Vac/ Vdc, 50/60Hz A: Relay O/P (Barrier terminal Block)
 B: Transistor PNP/NPN (Barrier terminal Block)
 R: Relay O/P (Green terminal)-EuroType
 N: Transistor PNP/NPN-EuroType

MATERIAL

0: SUS304 6: SUS316 P: PTFE

CONNECTION

D---1"(25A)	I---4"(100A)	M---5kg/cm ²	R---PF(G)	Y---PN 25
E---1-1/2"(40A)	J---5"(125A)	N---10kg/cm ²	T---BSP	Z---PN 40
F---2"(50A)	K---6"(150A)	O---150 Lbs	U---NPT	S---others
G---2-1/2"(65A)	S---others	P---300 Lbs	W---PN 10	9---Sanitary
H---3"(80A)		Q---PT	X---PN 16	

LENGTH (L) (UNIT: cm)

0500: 50cm(01~50)
 1000: 100cm(51~100)
 1500: 150cm(101~150) ※ 50cm per Unit

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 $\pm 5\text{mm}$

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

Please contact your nearest distributing office for further information.

ORDER INFORMATION



SC 24 ☐ ☐ 0 (T) - ☐ ☐ ☐

POWER SUPPLY & OUTPUT

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

MATERIAL

0: SUS304 6: SUS316 L: SUS316L

MODEL

0: Standard

(High temp. 150°C)

ELECTRICAL CONNECTION

A: ASI C: CABLE D: Valve plug DIN43650

CONNECTION

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