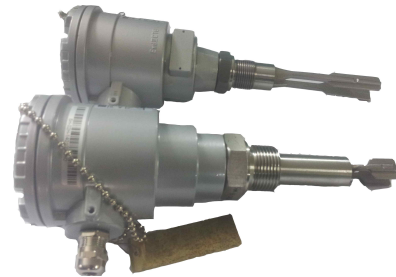


SHICO. VIBRATION FORK TYPE LEVEL SWITCH

MODEL : SVFLS Series

■ PRINCIPLE OF OPERATION

A specially shaped tuning fork is kept in vibration by piezo electric elements. When the service material covers the tines, they cause damping of the vibration. This damping of vibration is sensed by the electronic circuitry and the signal after processing is used to operate a relay. The potential free contacts of the relays are available for alarm annunciation/control.



■ BENEFITS

- Single-point control
- Adjustable switching delay for fork covered/uncovered
- Electronics remote, wall/back panel mounting
- Flame-proof version for hazardous areas
- Adjustable insertion length version

■ APPLICATIONS

Fork Level Switch can be used for all type of liquids in storage tanks, mixing tanks, and pipe lines.

In addition, Fluidfork is suitable for most of the applications where float switches were previously used and for liquids, which are sticky, corrosive, agitated, splashing and forming.

■ USAGE

Level tester SVFLS-Series of level switches are successfully used in operating equipments for liquids having viscosity up to 10,000 cP in Food, Power, Chemicals, Sugar, Detergents, Steel, Minerals, Textiles etc.

They have also replaced the float operated switches in some of the applications. Additionally, They are not affected by electric properties of the service materials.

■ OPERATING CONDITION

Operating Temperature	-40~85℃ (Standard Version)
	Max 150℃ (Special Version)
Viscosity	Up to 10,000cP
Operation Pressure	Max 100bar
Density	Greater than 0.7gm/c.c

■ MODEL NAME CLASSIFICATION

Standard	SVFLS
High Temp'	SVFLS-H



SAM HOI INDUSTRIAL CO., LTD.

#48-2, 66-BeonGil, Golden root-Ro, Juchon Myeon, Gimhae-city Gyeongnam, Korea

Tel. +82-55-321-0578 Fax. +82-55-321-0573

E-mail: shico007@chol.com Homepage : www.shico.co.kr

B-31

SHICO. VIBRATION FORK TYPE LEVEL SWITCH

MODEL : SVFLS Series

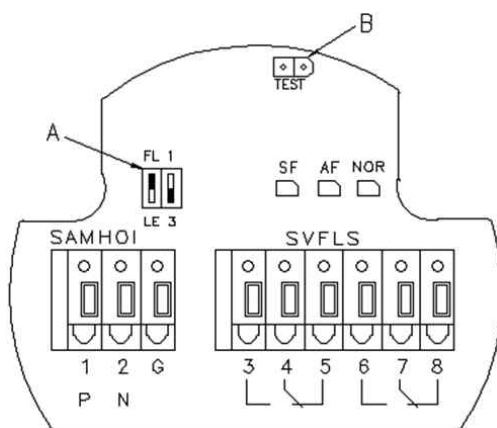
■ PRIMARY FEATURE

- No moving parts, no wear and tear
- Operates reliably in viscous liquids.
Not affected by streams, turbulence, floating particles and gas bubbles.
- Operation is independent of electrical properties of materials.
- Can be installed quickly in small entries, pipes and mixing tanks.
- Installation is independent of position,
- No adjustment required, therefore fast commissioning

■ SPECIFICATION

Power Supply	110 or 220V AC(-15 ~+10%), 50/60 Hz OR DC24V
Output Contact	2a2b DC 24V 1A
Time Delay	Adjustable from 1 or 3 sec.
Power Consumption	5VA approx'.
Protection	IP56
Housing Material	Aluminum die casting
Cable Entry	PG #9 & PT 1/2 cable gland
Probe Operation Temp	-40 ~ 85℃ (Active Surface : -40 ~ 150℃)
Connection	3/4" or 1" screwed (Flanged mounting on request)
Probe Material	Stainless steel 304,316
Level length	Standard : 135mm
	Others : User's information

■ ELECTRICAL CONNECTION



1. SWITCH SETTING("A"):

SWITCH	CONDITION	LED LIGHTING
FL (FLOW)	WET	GREEN
	DRY	RED
LE (LEVEL)	WET	RED
	DRY	GREEN

SWITCH	SWITCH TIME DELAY
1	1 sec
3	3 sec

2. ALARM TEST("B*"):
IT OPERATE FROM ALARM TO NORMAL IF THE TEST IS CREATED SHORT CIRCUIT.



SAM HOI INDUSTRIAL CO., LTD.

#48-2, 66-BeonGil, Golden root-Ro, Juchon Myeon, Gimhae-city Gyeongnam, Korea

Tel. +82-55-321-0578 Fax. +82-55-321-0573

E-mail: shico007@chol.com Homepage : www.shico.co.kr

B-32

SHICO. VIBRATION FORK TYPE LEVEL SWITCH

MODEL : SVFLS Series

■ ORDERING INFORMATION

MODEL SELECTION

SVFLS

A. POWER SUPPLY

1. DC 24V
2. AC 110/220V, 50/60Hz

B. TYPE

1. INTEGRAL (CONTROL UNIT & PROBE) STANDARD
2. SPLIT (3 CORE CABLE USE PROBE WITH CONTROL UNIT)

C. CONNECTION

1. 3/4"
2. 1"
3. ANSI 1" RF
4. Other is user request.

D. SENSOR LENGTH (mm)

1. Length is optional part.

PROBE LENGTH----- REQUIRED (100mm TO 3499mm)

E. SWITCH CONTACT

1. SPDT
2. DPDT

F. TEMPERATURE

1. H : -40 ~ 150℃
2. L : -40 ~ 85℃

H : EXPLOSION PROOF (OPTION)

SVFLS	1	1	1	135	1	H	EX
-------	---	---	---	-----	---	---	----



SAM HOI INDUSTRIAL CO., LTD.

#48-2, 66-BeonGil, Golden root-Ro, Juchon Myeon, Gimhae-city Gyeongnam, Korea

Tel. +82-55-321-0578 Fax. +82-55-321-0573

E-mail: shico007@chol.com Homepage : www.shico.co.kr

B-34