

THEORY & STRUCTURE

Work theory of tuning-fork material level switch is through the installation of a pair of pressure in the tuning-fork base seat ,transistors make the tuning fork vibrate in a certain common frequency .When measured materials cover a tuning-fork vibration reduce,the changed vibration frequency is automatic to know, the handled signal adjust relay, achieve the purpose of instruct or control.

CHARACTERISTICS

Strong adaptability--different electrical parameters and density of the tested have different effect on measuring.Scaling,agitation, turbulence, bubble, vibration, medium viscosity, high temperature and high pressure,this bad conditions have no effect on checking.

Free from maintaining--because the checking process of tuning fork limit switch acomplished by electronic circuit,no moving parts, so once installed and put into operation will not need to maintain.

Without calibration--because the checking process of tuning fork limit switch not under the influence of the tested medium electric parameter and density,so no matter measure which liquid,scene calibration do not need.

FUNCTIONS

Suitable for all kinds of bin solid material material level and various container level point alarm or control.

Solid material: flow freely and medium density solid powder or particle.
Such as: fly ash, cement, sand, stone, plastic particles, salt sugar ,ect.

Liquid medium: with explosive and no explosive dangerous liquid, corrosive liquid (acid, alkali) high viscosity liquid.

Such as: water, acid and alkali solution, mineral water ,pulp, dye, oil, milk, wine, beverage, etc.

GENERAL APPLICATION FIELDS

Paper making, brew wine, cement, chemical industry, dairy products, edible oil, food and beverage

Sugar, chemical fertilizer, glass, textile, semiconductor, water and sewage, pharmaceutical manufacturing

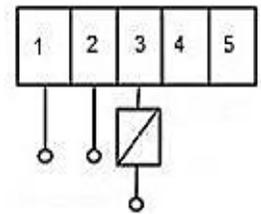
Coal mine, smelting, paint industry, oil and gas, metal package.

TECHNICAL DATA

●Power supply voltage:	DC24VDC; AC220VAC, 50/60Hz
●Consumption:	Dc power supply: 0.25W(24V) Ac power supply: 1.5W (220V)
●Working temp.:	Standard type: -40~80°C; High temperature type: -40~130°C
●Ambient temp.:	-40~70°C
●Working pressure:	-0.1~2.5MPa
●Medium density:	≥0.7g/cm ³
●Liquid viscosity:	≤10000mm ² /s
●Output type:	"DC24V when Power supply is NPN , open-collector output (350mA The Ann type product≤50mA) DC24V when Power supply, is the relay contact point output (AC220V 0.5A) AC220V when Power supply ,is two-line output (with load of 220V, 4.4W~77W),not too small and not too big,means load working current≥20mA) "
●Electrical interface:	M20x1.5
●Protection classic:	IP65
●Fork length:	128~2000mm
●Wetted materials:	Stainless steel
●Terminal block material:	Aluminum alloy

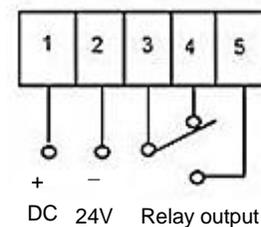


TERMINAL WIRING



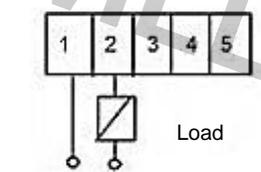
DC 24V V+ Load

TF-0



DC 24V Relay output

TF-1



AC 220V (Bulb or relay)

TF-2

SELECTED TABLE

TF-	1	0	1	s	x	SPECIFICATION
Power supply and output type	0					DC24V Power supply, collector output
	1					DC24V Power supply, relay passive contact point output
	2					AC220V Power supply, two-line string relay output
Fork forms	0					Standard type
	x					Extended type, digital is fork length, range: 200~2000
Process connection	1					Fixed pipe thread G1.5"
	2					Fixed flange DN40
	3					Movable pipe thread G1.5"
	4					Movable flange DN40
Working temperature				S		Standard type: -40~80°C
				H		High temperature type: -40~130°C
Working pressure					x	Such as: 1.6Mpa (X=16)

INSTALLATION

- 1、Mixer
- 2、Up limit
- 3、Up/down limit
- 4、Down limit
- 5、Install in the pipeline, to prevent pump operating without materials

