

LSK300 SERIES TUNING FORK LEVEL SWITCH

FEATURES

- ◎ One-button calibration, easy to operate and highly durable
- ◎ Hygienic design suitable for food and pharmaceutical applications, minimizing dead zones
- ◎ Adjustable vibration strength for various application needs
- ◎ Capable of detecting low-density solids
- ◎ Suitable for powders, granules, liquids, and viscous materials



INTRODUCTION

The LSK300 Series tuning fork level switch features a simple and robust design, ideal for a wide range of solid and liquid level measurement applications, especially in hygienic environments such as the food and pharmaceutical industries.

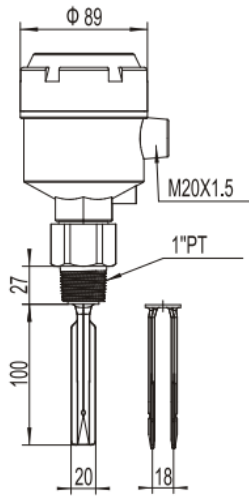
Equipped with intelligent circuitry, it remains unaffected by flow turbulence, bubbles, foam, coating, changing fluid properties, or media variation.

This series is suitable for detecting fine solids, powders, and even low-density bulk materials in silos, as well as for various liquids. It is also designed for use in explosive hazardous areas and meets sanitary requirements for sensitive applications.

WORKING PRINCIPLE

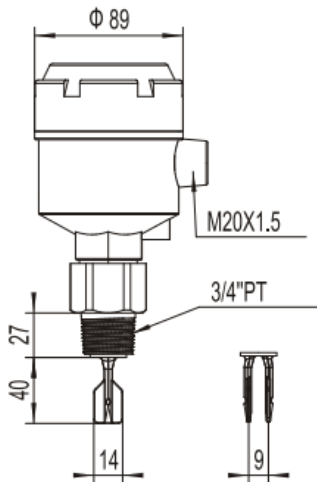
The LSK300 Series Tuning Fork Level Switch operates using a pair of piezoelectric crystals mounted on the fork base, which cause the fork to vibrate at a specific resonance frequency. When the fork comes into contact with the measured medium, its vibration frequency and amplitude change. These changes are detected and processed by intelligent circuitry, which converts them into a reliable switch signal.

SPECIFICATIONS



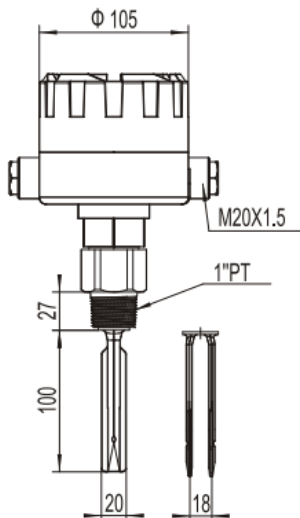
LSK310 Standard type

Power supply	18~30VDC, 85~250VAC
Output signal	Relay 5A/250VAC DPDT
Wetted material	SUS304/SUS316L
Measuring range	100mm~1000mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C, Optional 150°C
Mechanical connection	Thread, flange, clamp
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³



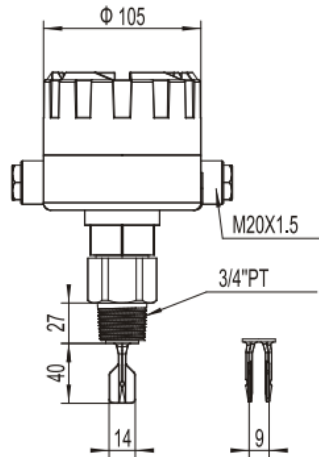
LSK311 Compact type

Power supply	18~30VDC, 85~250VAC
Output signal	Relay 5A/250VAC SPDT
Wetted material	SUS304/SUS316L
Measuring range	40mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C
Mechanical connection	Thread, flange, clamp
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³

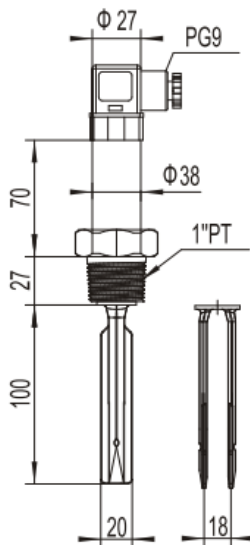


LSK320 Ex-type

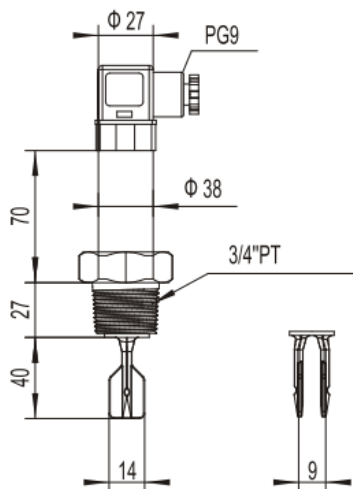
Power supply	18~30VDC, 85~250VAC
Output signal	Relay 5A/250VAC DPDT
Wetted material	SUS304/SUS316L
Measuring range	100mm~1000mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C, Optional 150°C
Mechanical connection	Thread, flange, clamp
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³ Flameproof Exd II-CT3-T4



LSK321 Ex-compact type	
Power supply	18~30VDC, 85~250VAC
Output signal	Relay 5A/250VAC SPDT
Wetted material	SUS304/SUS316L
Measuring range	40mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C
Mechanical connection	Thread, flange, clamp
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³

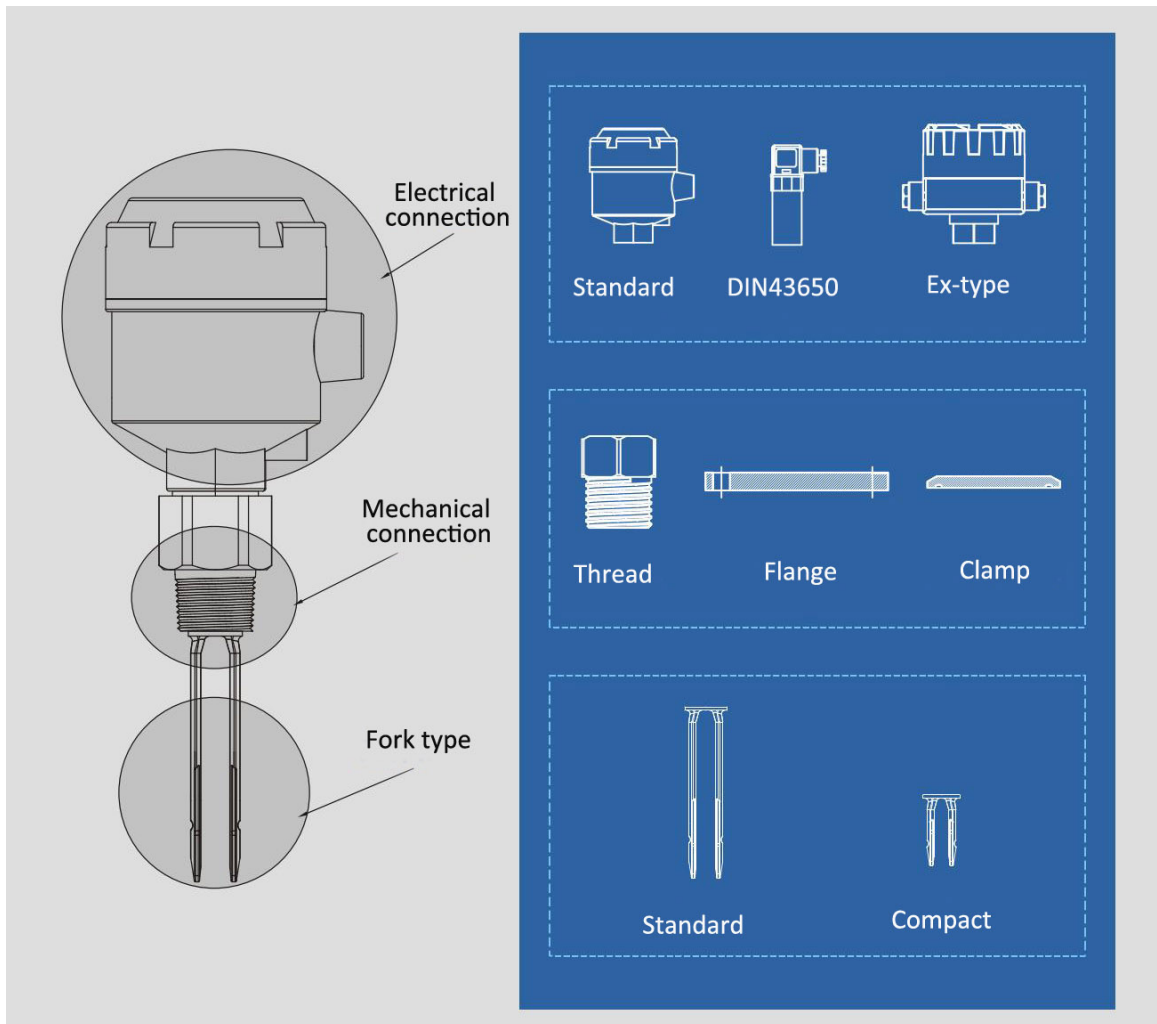


LSK330 Standard type with DIN43650	
Power supply	18~30VDC
Output signal	NPN/PNP
Wetted material	SUS304/SUS316L
Measuring range	100mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C
Mechanical connection	Thread, flange, clamp
Electrical connection	DIN43650
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³

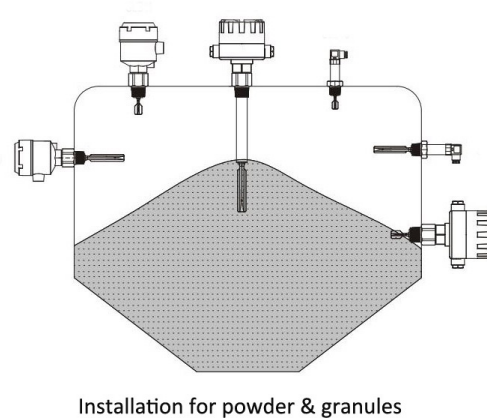
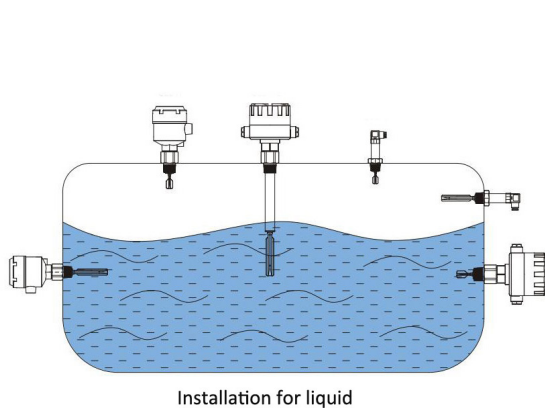


LSK331 Compact type with DIN43650	
Power supply	18~30VDC
Output signal	NPN/PNP
Wetted material	SUS304/SUS316L
Measuring range	40mm
Working pressure	-0.1MPa~2.5MPa
Working temperature	-20~100°C
Mechanical connection	Thread, flange, clamp
Electrical connection	DIN43650
Minimum induction density	Powder 0.23g/cm ³ , Liquid 0.8g/cm ³

STRUCTURE



INSTALLATION



ORDER FORMAT

LSK310 - G1/2 - D - R - 100

Type	Model
Standard type	LSK310
Compact type	LSK311
Ex type	LSK320
Ex-compact type	LSK321
DIN43650 standard	LSK330
DIN43650 compact	LSK331
M12 standard	LSK340
M12 compact	LSK341

Mechanical connection	Code
Thread G1/2	G1/2
Thread G3/4	G3/4
Thread G1	G1
Thread 1/2"NPT	1/2NPT
Thread 3/4"NPT	3/4NPT
Thread 1"NPT	1NPT
Clamp on	C
Flange	F

Code	Measuring length
40	40mm
100	100mm
...	...
1K	1000mm

Code	Output signal
R	Relay
N	NPN
P	PNP

Code	Power supply
D	24VDC
A	85~250VAC