

LSK500 SERIES

IMPEDANCE SPECTRUM CAPACITIVE LEVEL SWITCH

FEATURES

- ◎ Suitable for solids, liquids, and slurry media
- ◎ Reliable detection, unaffected by foam or bubbles
- ◎ Anti-adhesion design for viscous & conductive materials
- ◎ Stable switching using impedance spectrum technology
- ◎ Compact structure for easy installation in limited spaces



INTRODUCTION

LSK500 series capacitive level switch uses impedance spectrum capacitive technology to provide reliable point level detection for solids, liquids, and slurry media. A high-frequency electric field at the probe detects material presence through dielectric changes, delivering a stable switching output. The sensor is resistant to adhesion, foam, and conductive buildup, and its compact design allows easy installation in limited spaces. It's widely used in Beverage and food processing, dairy and fermentation systems, chemical and environmental processes, cosmetics, lithium battery liquids, and general industrial level detection etc.

SPECIFICATIONS

Measuring medium	Liquids, viscous media, powders, granules
Power supply	12-32VDC
Working current	9mA
Working temp.	-10~100°C
Working pressure	<4MPa
Installation	Thread G1/2", Clamp 50.5, Others on request
Electrical connection	M12 connector, Cable leads
Wetted material	PEEK+ SS304, PEEK+ 316L
Output signal	NPN, PNP
Indicator	Yellow LED: Lights up for 1 second during startup and turns off; Lights up continuously in case of a fault. Green LED: Lights up when the alarm condition is reached; Turns off when the alarm condition is not met.
Protection	IP67

DRAWING

LSK510 Standard type	LSK520 Standard type	LSK530 Extension rod type	LSK540 High-temp type

ORDER FORMAT

LSK510 - 21CG12P60N30

Configuration	Model	Rod length	Code
Standard type	LSK510	30mm	30
Standard type	LSK520	50mm	50
Extension rod type	LSK530	...	...
High-temp type	LSK540		
Electrical connection	Code	Output signal	Code
Cable leads	1	NPN	N
M12 connector	2	PNP	P
Alarm	Code	Sealing ring	Code
Single alarm NO	1O	No sealing ring	0
Single alarm NC	1C	PTFE sealing	4
Dual alarm NO+NC	2D		
Dual alarm NO+NO	2O		
Installation	Code	Wetted material	Code
Thread G1/2"	G12	PEEK+SS304	P4
Clamp 50.5	C5	PEEK+316L	P6
Others on request			