

LSK400 SERIES ROTARY PADDLE LEVEL SWITCH

FEATURES

- ◎ Fully sealed design, suitable for outdoor use
- ◎ Oil-seal structure prevents dust ingress along the shaft
- ◎ Stable and adjustable torque for reliable operation
- ◎ Compact design, easy installation
- ◎ Slip-clutch protection prevents damage under heavy load



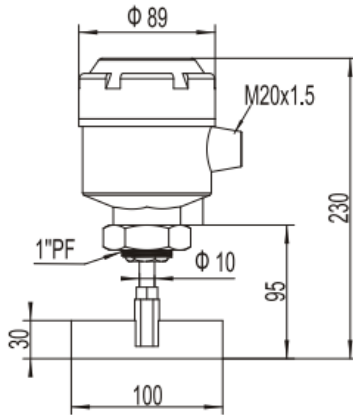
INTRODUCTION

The LSK400 Series Rotary paddle Level Switch is a mechanical device designed for reliable detection of bulk solid materials. Using a proven paddle-rotation detection technology with integrated mechanical sealing and a unique slip-clutch mechanism, it provides excellent performance in applications such as grain, feed, cement, plastic pellets, and wood chips. The rugged construction and high sealing capability ensure dependable operation even in dusty environments and outdoor installations.

WORKING PRINCIPLE

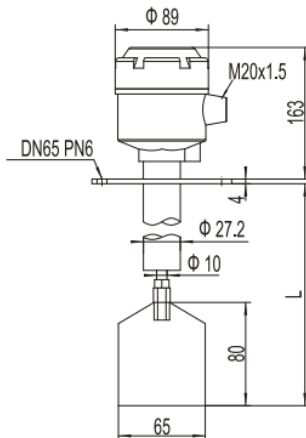
A low-speed gear motor with a slip clutch drives the rotating paddle. When the paddle is free, it rotates continuously. When bulk material reaches the paddle position, the rotation is blocked, causing the internal relay to change state and provide a level signal. Once the material no longer covers the paddle, rotation resumes and the relay returns to normal.

SPECIFICATIONS



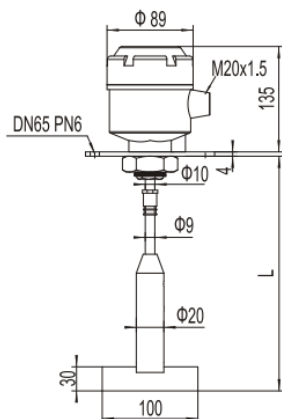
LSK411 Standard type

Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	95mm~400mm
Working temperature	-20~80°C
Mechanical connection	Thread 1"PF, flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A/C/D/E, Others on request
Protection	IP65



LSK412 Protection tube type

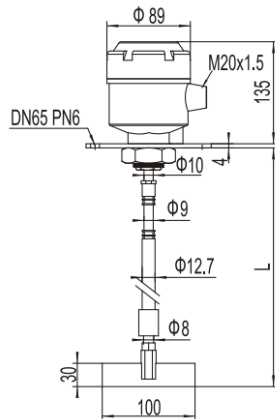
Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	150mm~1600mm
Working temperature	-20~80°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type B, Others on request
Protection	IP65



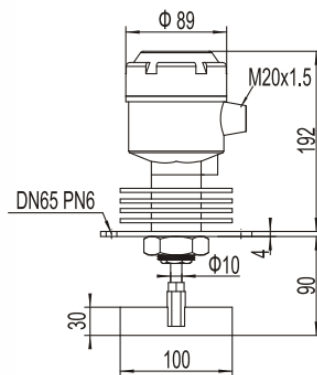
LSK413 Armored type

Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	450mm~4000mm
Working temperature	-20~80°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A, Others on request
Protection	IP65

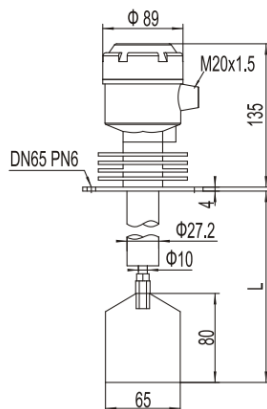
SPECIFICATIONS



LSK414 Adjustable type	
Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	450mm~1200mm
Working temperature	-20~80°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A, Others on request
Protection	IP65

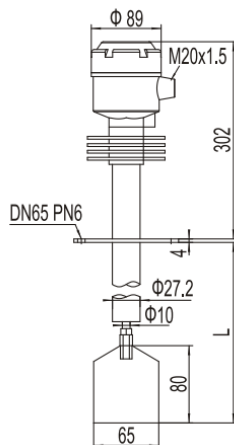
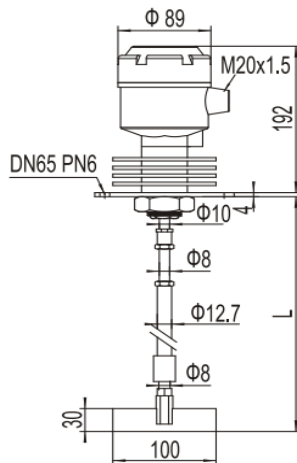
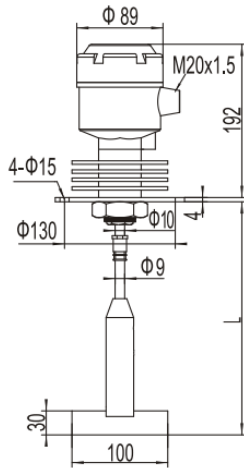


LSK421 high temperature type	
Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	95mm~400mm
Working temperature	-20~200°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A/C/D/E, Others on request
Protection	IP65



LSK422 High temperature protection tube type	
Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	150mm~1600mm
Working temperature	-20~200°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type B, Others on request
Protection	IP65

SPECIFICATIONS



LSK423 High temperature armored type

Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	150mm~4000mm
Working temperature	-20~200°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A, Others on request
Protection	IP65

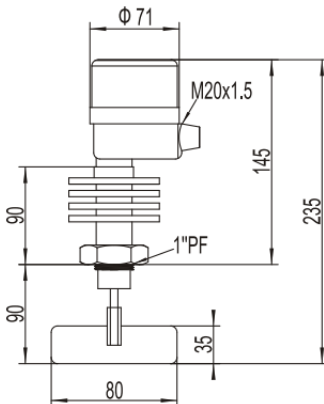
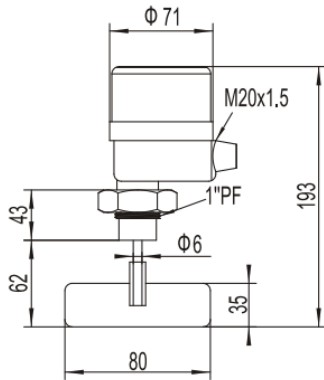
LSK424 High temperature adjustable type

Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	150mm~4000mm
Working temperature	-20~200°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A, Others on request
Protection	IP65

LSK432 Ultra-high temperature protection tube type

Power supply	24VDC, 220VAC, 110VAC
Output signal	Relay 5A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	150mm~1600mm
Working temperature	-20~400°C
Mechanical connection	Flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type A, Others on request
Protection	IP65

SPECIFICATIONS



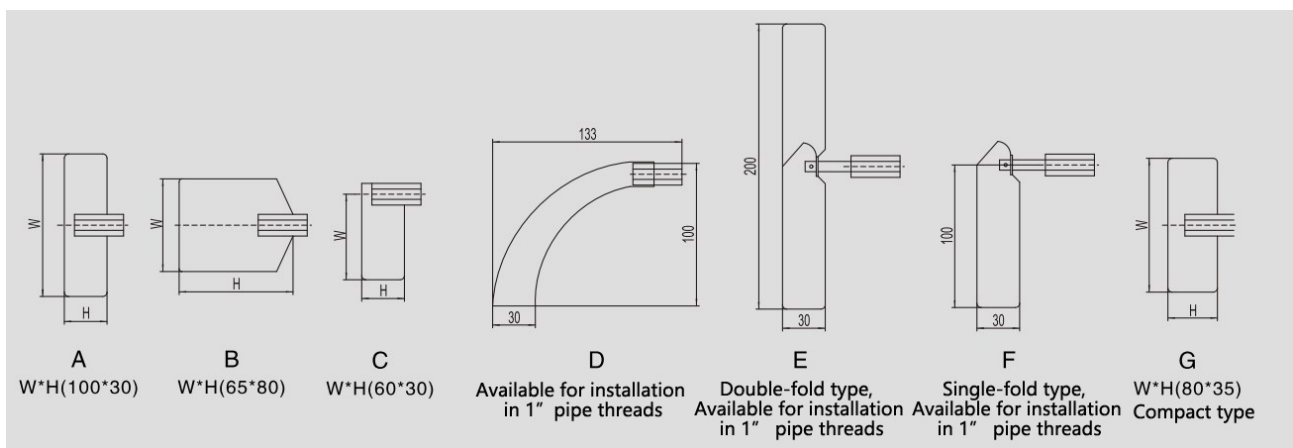
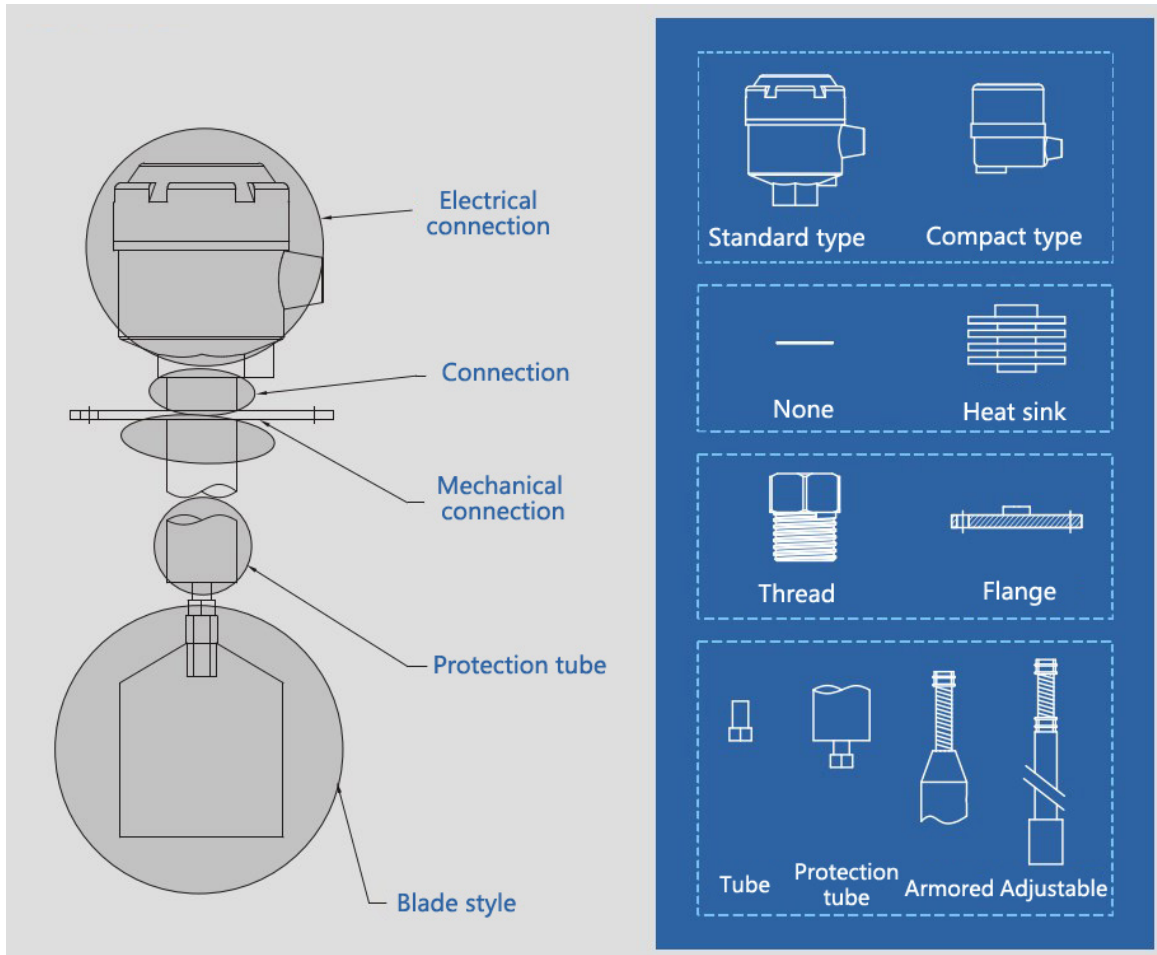
LSK441 Compact type

Power supply	24VDC, 220VAC
Output signal	Relay 3A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	90mm~200mm
Working temperature	-20~80°C
Mechanical connection	Thread 3/4"PF, 1"PF, flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type G, Others on request
Protection	IP65

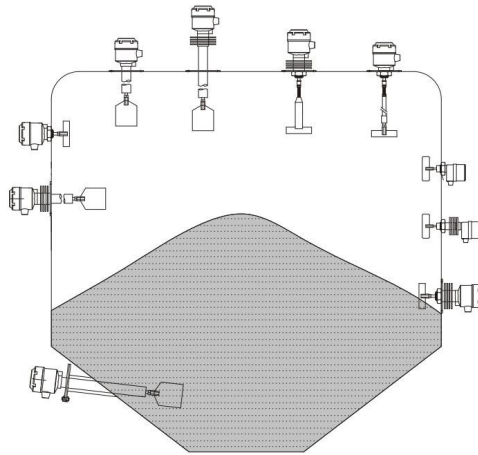
LSK442 High temperature compact type

Power supply	24VDC, 220VAC
Output signal	Relay 3A/250VAC SPDT
Blade speed	1RPM
Wetted material	SUS304
Measuring range	90mm~300mm
Working temperature	-20~200°C
Mechanical connection	Thread 3/4"PF, 1"PF, flange 2-1/2" *5kg/cm ³
Induction density	≥ 0.4g/cm ³
Blade	Type G, Others on request
Protection	IP65

STRUCTURE



INSTALLATION



Note:

1. Use rotary paddle products with caution when the pressure inside the vessel exceeds 0.1 bar.
2. Do not use the product in corrosive environments.
3. The installation position must be kept away from the discharge outlet.
4. The product must not be installed in applications with strong vibration. If the silo is equipped with a vibrator, the product should be installed away from the vibration source.
5. Do not use rotary paddle products if the measured material tends to agglomerate or crystallize.

ORDER FORMAT

LSK411 - G1 - A - A - 95

Type	Model
Standard type	LSK411
Protection tube type	LSK412
Armored type	LSK413
Adjustable type	LSK414
High-temp type	LSK421
High-temp tube type	LSK422
High-temp armored type	LSK423
High-temp adjustable type	LSK424
Ultra high temp tube type	LSK432
Compact type	LSK441
High-temp compact type	LSK442

Mechanical connection	Code
Thread G1/2	G1/2
Thread G3/4	G3/4
Thread G1	G1
Flange DN50	F50
Flange DN65(2-1/2" *5kg/cm ³)	F65
Others on request	

Code	Measuring length
95	95mm
...	...
4K	4000mm

Code	Blade type
A	100*30(W*H)
B	65*80(W*H)
C	60*30(W*H)
D	Sickle type
E	Double-fold type
F	Single-fold type
G	80*35(W*H) Compact type only

Code	Power supply
D	24VDC
A	220VAC
C	110VAC