

Rotary Paddle Level Switch

Small and Lightweight

Stainless Steel Construction

Easy to Install



Products Description

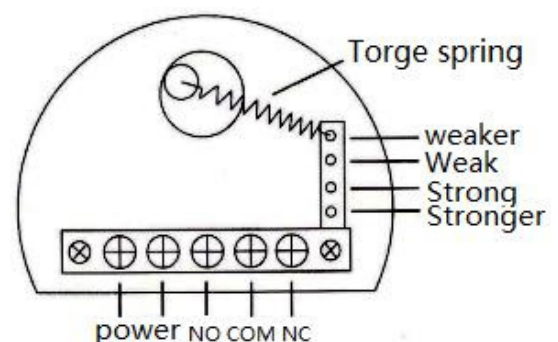
Rotary paddle level switch is used for solid materials(including powder, massive, granular, gel, etc.) It has outstanding features such as good sealing, strong overload capacity, lightweight and easy to install, large output contacts capacity, etc. In view of the different Specific Gravity of material can be done by adjustable tension of the spring, contact material part of its full stainless steel material. Rotary paddle level switch in the chemical, plastic, cement, medicine, feed, food and other industries widely used.

Working Principle

Level switch motor drives the blades rotating, when measured medium arrived at leaf position, blade blocked stop running, which touches the back of the micro switch output switch signals, when measured medium drop to leave leaf, blade under the action of spring back moves to primary position and continue to roll. Tension of the spring may be adjusted according to the Specific Gravity of the measured medium. Spring is adjusted to the strongest when material Specific Gravity get the max, on the contrary, it is adjusted to the weakest.

Products Features

1. American small hopper apparatus technology, three bearing support, more reliable.
2. The original seal design can prevent the dust into (patent) actual
3. The torsion is stable, reliable, and adjustable.
4. When blades undertake the over load, clutch can automatic slide to protect the machine from being damaged.
5. Separate of Mechanical and electrical structure, free from disassembly and easy to maintain.
6. The junction box is IP65 protection grade, good sealing, and can be used outdoors
7. Special blade can be used in lower density materials.



Technical parameters

1. Power supply: 220VAC/110VAC/24VAC/24VDC
2. Contact capacity: 250VAC/10ASPDT
3. Power: 4W
4. blade rotation speed: 1RPM
5. Torque: 1.0kg×cm
6. Material Specific Gravity: $\geq 0.5\text{g/cm}^3$
7. Working temperature: -10°C -80°C ; Maximum temperature 400°C
8. Insulation resistance: $\geq 100\text{M}\Omega$
9. Dielectric strength: 1500V*1min
10. IP Grade: IP65
11. Blade Material: SS304
12. Process Pressure: $< 0.1\text{MPa}$ (ordinary model), $< 0.6\text{MPa}$ for high pressure model is on order.

Model Selection

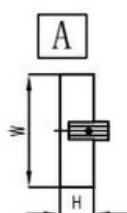
Model 1	ISEN_XK10-□ (for Specific Gravity $< 0.8\text{g/cm}^3$), also named small switch	
Connecting Shaft	C	Standard thread type installation
	F	Standard Flange type in stallation
	Z	Shaft protection tube type
	G	High temperature thread type
	GF	High temperature Flange type
	GZ	High temperature Shaft protection tube type
Blade shape	A	30*100
	B	65*80 decomposable Blades
	X	Double 80*35 Cross Blades
Blade shape:	1	220VAC
	2	24VDC
	3	24VAC

Model 2	ISEN_XK-3□ (Specific Gravity $> 0.8\text{g/cm}^3$), also called big switch	
Connecting Shaft type	0	Standard thread type installation
	1	Standard Flange type installation
	2	Shaft protection tube type
	3	High temperature thread type
	4	High temperature Flange type
	5	High temperature protection tube type
	6	Shaft length adjustable type
	8	Steel cable type
Blade shape	A	XK30 series: 100*30(WxH); XK10 series 80*35
	B	65*80(WxH)
	C	50*30(WxH)
	D	Sickle type

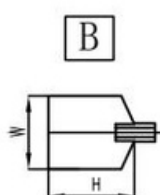
	E	Folded type
Power Supply	1	220VAC
	2	110VAC
	3	24VAC
	4	24VDC

Remarks: **Blade shape**

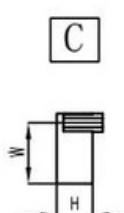
Pictures and description of different models



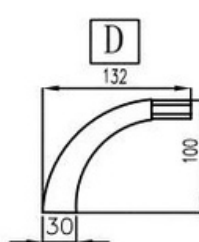
A. 100*30 (W×H)



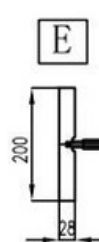
B. 65*80 (W×H)




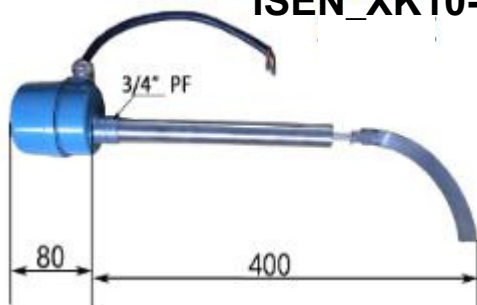

C. 50×30 (W×H)



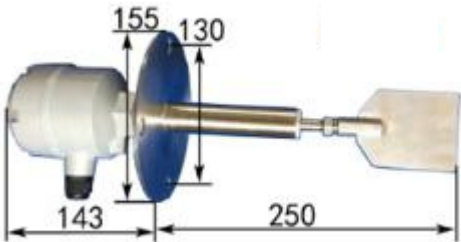


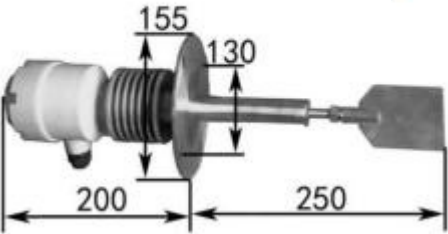
D. sickle-shaped

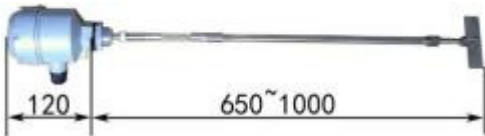
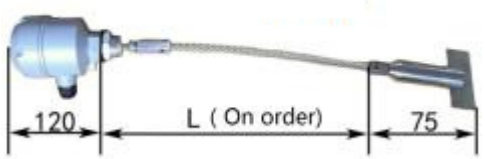


E. folded-type

 <p>ISEN_XK10-GZ</p>	ISEN_XK10-GZ high temperature with protection tube	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C
	Specific Gravity	0.5g/cm ³
 <p>ISEN_XK10-Z</p>	ISEN_XK10-Z with shaft's protection tube	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
 <p>ISEN_XK10-G</p>	ISEN_XK10-G high temperature threaded	
	Terminalblock	Aluminum Alloy IP65
	Voltage	AC220V/1A; 24VAC
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C

	Specific Gravity	0.5g/cm ³
	Connection	3/4"PF
<p>ISEN_XK10CA</p> 	ISEN_XK10-CA (ordinary threaded type)	
	Terminalblock	Aluminum alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
	Connection	3/4"PF
 <p>ISEN_XK10CX</p>	ISEN_XK10-CX (Micro-switch ambient temperature)	
	Terminalblock	Aluminum alloy IP65
	Voltage used	AC220V/1A; 24VAC
	Power Consumption	3W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-20~80°C
	Specific Gravity	0.5g/cm ³
	Connection	3/4"PF
	Torque	10kg-cm
	Voltage resistance	1500VACx1min
	Specific Gravity suitable	>=0.4g/cm ³
	Cable entrance	1/2" PF
	Direction of mounting	Vertical or horizontal
	Protection class	IP65
<p>ISEN_XK30</p> 	ISEN_XK30 (Ordinary threaded)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
	Connection	G1"
<p>ISEN_XK31</p> 	ISEN_XK31 (Ordinary Flanged)	
	Terminalblock	Aluminum alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C

	Specific Gravity	0.5g/cm ³
	Connection	DN65 PN0.6 (or PN10)
<p>ISEN_XK32</p> 	ISEN_XK32 (shaft tube protection)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
	Connection	DN65 PN0.6 (Customized)
<p>ISEN_XK33</p> 	ISEN_XK33 (high temperature threaded)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C
	Specific Gravity	0.5g/cm ³
	Connection	G1"/G1-1/2" /G3/4"
<p>ISEN_XK34</p> 	ISEN_XK34 (high temperature flanged)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C
	Specific Gravity	0.5g/cm ³
	Connection	DN65 PN0.6 (or PN10)
<p>ISEN_XK35</p> 	ISEN_XK35 (high temperature with protection tube)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C
	Specific Gravity	0.5g/cm ³
	Connection	DN65 PN0.6 or PN10

<p>ISEN_XK36</p> 	ISEN_XK36 (shaft length is adjustable)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
	Connection	G1"/G1-1/2" /G3/4"
<p>ISEN_XK38</p> 	ISEN_XK38 (Steel cable)	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
	Connection	G1"/G1-1/2" /G3/4"

Installation notice

1. As shown in the above, the resistance switch should avoid installation and blanking under the falling medium , when it cannot be avoid, protective plate should be installed above the blade, in order to protect the blade.
2. To avoid outdoor rainwater into the terminal box, the input line should straight down in horizontal installation. Cable fixed nut must lock. It is better to install rain cover.
3. When installation hole size less than the width of blade, blade can be removed after the installation, before assembly, the thread should be smear with hypoxia glue, to prevent the leaf falls off in the process of operation.
4. Confirm the power supply voltage is the marked voltage
5. Confirm the installation way is horizontal or vertical.
6. When using a short type, opening size must be greater than 35 mm



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