

Rotary Paddle Level Switch

Small and Lightweight

Stainless Steel Construction

Easy to Install

**ISO 9001
registered**

Products Description

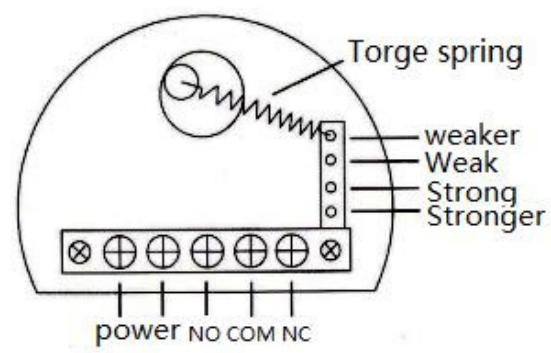
Rotary paddle level switch is used for solid materials(including powder, massive, granular, gel, etc.) It has outstanding features such as good sealing, strong overload capacity, lightweight and easy to install, large output contacts capacity, etc. In view of the different Specific Gravity of material 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/10A SPDT
3. Power: 4W
4. blade rotation speed: 1RPM
5. Torque: 1.0kg×cm
6. Material Specific Gravity: ≥0.5g/cm³
7. Working temperature: -10°C -80°C; Maximum temperature 400°C
8. Insulation resistance: ≥100MΩ
9. Dielectric strength: 1500V*1min
10. IP Grade: IP65
11. Blade Material: SS304
12. Process Pressure: <0.1MPa (ordinary model), < 0.6MPa for high pressure model is on order.

Model Selection

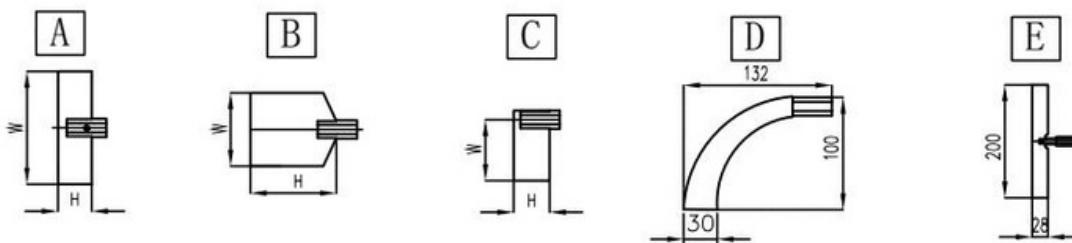
Model 1	ISEN_XK10-□ (for Specific Gravity<0.8g/cm ³), also named small switch	
Connecting Shaft	C	Standard thread type installation
	F	Standard Flange type installation
	Z	Shaft protection tube type
	G	High temperature thread type
	GF	High temperature Flange type
	GZ	High temperature Shaft protection tube type
Blade shape	A	30*100
	B	65*80 decomposable Blades
	X	Double80*35 Cross Blades
Blade shape:	1	220VAC
	2	24VDC
	3	24VAC

Model 2	ISEN_XK-3□ (Specific Gravity>0.8g/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); XK10series80*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**

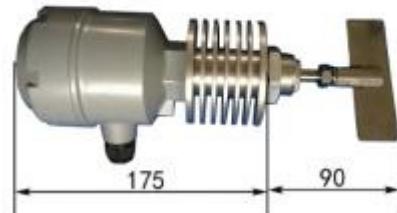
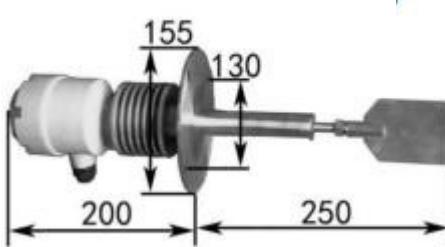
Pictures and description of different models

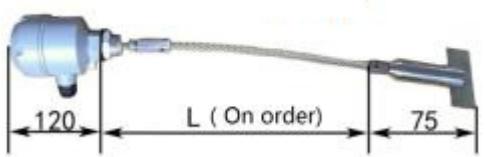


A. 100*30 (W×H) B. 65*80 (W×H) C. 50×30 (W×H) D. sickle-shaped E. folded-type

 <p>ISEN_XK10-GZ</p> <p>3/4" PF</p> <p>135 250</p>	ISEN_XK10-GZ high temperature with protection tube	
	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
 <p>ISEN_XK10-Z</p> <p>3/4" PF</p> <p>80 400</p>	Output nodes	5A/250VAC SPDT
	Rotation rate	1RPM
	Operating temperature	-10~200°C
 <p>ISEN_XK10-G</p> <p>3/4" PF</p> <p>135 85</p>	Specific Gravity	0.5g/cm ³
	Connection	3/4"PF
	ISEN_XK10-Z with shaft's protection tube	
 <p>ISEN_XK10-G</p> <p>3/4" PF</p> <p>135 85</p>	Terminalblock	Aluminum Alloy IP65
	Power Consumption	4W
	Output nodes	5A/250VAC SPDT
 <p>ISEN_XK10-G</p> <p>3/4" PF</p> <p>135 85</p>	Rotation rate	1RPM
	Operating temperature	-10~80°C
	Specific Gravity	0.5g/cm ³
 <p>ISEN_XK10-G</p> <p>3/4" PF</p> <p>135 85</p>	Connection	3/4"PF
	ISEN_XK10-G high temperature threaded	
	Operating temperature	-10~200°C

	<table border="1"> <tr> <td>Specific Gravity</td><td>0.5g/cm³</td></tr> <tr> <td>Connection</td><td>3/4"PF</td></tr> </table>	Specific Gravity	0.5g/cm ³	Connection	3/4"PF																								
Specific Gravity	0.5g/cm ³																												
Connection	3/4"PF																												
ISEN_XK10CA	ISEN_XK10-CA (ordinary threaded type) <table border="1"> <tr> <td>Terminalblock</td><td>Aluminum alloy IP65</td></tr> <tr> <td>Power Consumption</td><td>4W</td></tr> <tr> <td>Output nodes</td><td>5A/250VAC SPDT</td></tr> <tr> <td>Rotation rate</td><td>1RPM</td></tr> <tr> <td>Operating temperature</td><td>-10~80°C</td></tr> <tr> <td>Specific Gravity</td><td>0.5g/cm³</td></tr> <tr> <td>Connection</td><td>3/4"PF</td></tr> </table>	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														
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																												
ISEN_XK10CX	ISEN_XK10-CX (Micro-switch ambient temperature) <table border="1"> <tr> <td>Terminalblock</td><td>Aluminum alloy IP65</td></tr> <tr> <td>Voltage used</td><td>AC220V/1A; 24VAC</td></tr> <tr> <td>Power Consumption</td><td>3W</td></tr> <tr> <td>Output nodes</td><td>5A/250VAC SPDT</td></tr> <tr> <td>Rotation rate</td><td>1RPM</td></tr> <tr> <td>Operating temperature</td><td>-20~80°C</td></tr> <tr> <td>Specific Gravity</td><td>0.5g/cm³</td></tr> <tr> <td>Connection</td><td>3/4"PF</td></tr> <tr> <td>Torque</td><td>10kg-cm</td></tr> <tr> <td>Voltage resistance</td><td>1500VACx1min</td></tr> <tr> <td>Specific Gravity suitable</td><td>>=0.4g/cm³</td></tr> <tr> <td>Cable entrance</td><td>1/2" PF</td></tr> <tr> <td>Direction of mounting</td><td>Vertical or horizontal</td></tr> <tr> <td>Protection class</td><td>IP65</td></tr> </table>	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
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																												
ISEN_XK30	ISEN_XK30 (Ordinary threaded) <table border="1"> <tr> <td>Terminalblock</td><td>Aluminum Alloy IP65</td></tr> <tr> <td>Power Consumption</td><td>4W</td></tr> <tr> <td>Output nodes</td><td>5A/250VAC SPDT</td></tr> <tr> <td>Rotation rate</td><td>1RPM</td></tr> <tr> <td>Operating temperature</td><td>-10~80°C</td></tr> <tr> <td>Specific Gravity</td><td>0.5g/cm³</td></tr> <tr> <td>Connection</td><td>G1"</td></tr> </table>	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"														
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"																												
ISEN_XK31	ISEN_XK31 (Ordinary Flanged) <table border="1"> <tr> <td>Terminalblock</td><td>Aluminum alloy IP65</td></tr> <tr> <td>Power Consumption</td><td>4W</td></tr> <tr> <td>Output nodes</td><td>5A/250VAC SPDT</td></tr> <tr> <td>Rotation rate</td><td>1RPM</td></tr> <tr> <td>Operating temperature</td><td>-10~80°C</td></tr> </table>	Terminalblock	Aluminum alloy IP65	Power Consumption	4W	Output nodes	5A/250VAC SPDT	Rotation rate	1RPM	Operating temperature	-10~80°C																		
Terminalblock	Aluminum alloy IP65																												
Power Consumption	4W																												
Output nodes	5A/250VAC SPDT																												
Rotation rate	1RPM																												
Operating temperature	-10~80°C																												

	<p>Specific Gravity</p> <p>Connection</p>	<p>0.5g/cm³</p> <p>DN65 PN0.6 (or PN10)</p>
ISEN_XK32	<p>ISEN_XK32 (shaft tube protection)</p> 	
	<p>Terminalblock</p> <p>Power Consumption</p> <p>Output nodes</p> <p>Rotation rate</p> <p>Operating temperature</p> <p>Specific Gravity</p> <p>Connection</p>	<p>Aluminum Alloy IP65</p> <p>4W</p> <p>5A/250VAC SPDT</p> <p>1RPM</p> <p>-10~80°C</p> <p>0.5g/cm³</p> <p>DN65 PN0.6 (Customized)</p>
ISEN_XK33	<p>ISEN_XK33 (high temperature threaded)</p> 	
	<p>Terminalblock</p> <p>Power Consumption</p> <p>Output nodes</p> <p>Rotation rate</p> <p>Operating temperature</p> <p>Specific Gravity</p> <p>Connection</p>	<p>Aluminum Alloy IP65</p> <p>4W</p> <p>5A/250VAC SPDT</p> <p>1RPM</p> <p>-10~200°C</p> <p>0.5g/cm³</p> <p>G1"/G1-1/2" /G3/4"</p>
ISEN_XK34	<p>ISEN_XK34 (high temperature flanged)</p> 	
	<p>Terminalblock</p> <p>Power Consumption</p> <p>Output nodes</p> <p>Rotation rate</p> <p>Operating temperature</p> <p>Specific Gravity</p> <p>Connection</p>	<p>Aluminum Alloy IP65</p> <p>4W</p> <p>5A/250VAC SPDT</p> <p>1RPM</p> <p>-10~200°C</p> <p>0.5g/cm³</p> <p>DN65 PN0.6 (or PN10)</p>
ISEN_XK35	<p>ISEN_XK35 (high temperature with protection tube)</p> 	
	<p>Terminalblock</p> <p>Power Consumption</p> <p>Output nodes</p> <p>Rotation rate</p> <p>Operating temperature</p> <p>Specific Gravity</p> <p>Connection</p>	<p>Aluminum Alloy IP65</p> <p>4W</p> <p>5A/250VAC SPDT</p> <p>1RPM</p> <p>-10~200°C</p> <p>0.5g/cm³</p> <p>DN65 PN0.6 or PN10</p>

<p>ISEN_XK36</p> 	<p>ISEN_XK36 (shaft length is adjustable)</p> <table border="1"> <tr> <td>Terminalblock</td><td>Aluminum Alloy IP65</td></tr> <tr> <td>Power Consumption</td><td>4W</td></tr> <tr> <td>Output nodes</td><td>5A/250VAC SPDT</td></tr> <tr> <td>Rotation rate</td><td>1RPM</td></tr> <tr> <td>Operating temperature</td><td>-10~80°C</td></tr> <tr> <td>Specific Gravity</td><td>0.5g/cm³</td></tr> <tr> <td>Connection</td><td>G1"/G1-1/2" /G3/4"</td></tr> </table>	Terminalblock	Aluminum Alloy IP65	Power Consumption	4W	Output nodes	5A/250VAC SPDT	Rotation rate	1RPM	Operating temperature	-10~80°C	Specific Gravity	0.5g/cm³	Connection	G1"/G1-1/2" /G3/4"
Terminalblock	Aluminum Alloy IP65														
Power Consumption	4W														
Output nodes	5A/250VAC SPDT														
Rotation rate	1RPM														
Operating temperature	-10~80°C														
Specific Gravity	0.5g/cm³														
Connection	G1"/G1-1/2" /G3/4"														
<p>ISEN_XK38</p> 	<p>ISEN_XK38 (Steel cable)</p> <table border="1"> <tr> <td>Terminalblock</td> <td>Aluminum Alloy IP65</td> </tr> <tr> <td>Power Consumption</td> <td>4W</td> </tr> <tr> <td>Output nodes</td> <td>5A/250VAC SPDT</td> </tr> <tr> <td>Rotation rate</td> <td>1RPM</td> </tr> <tr> <td>Operating temperature</td> <td>-10~80°C</td> </tr> <tr> <td>Specific Gravity</td> <td>0.5g/cm³</td> </tr> <tr> <td>Connection</td> <td>G1"/G1-1/2" /G3/4"</td> </tr> </table>	Terminalblock	Aluminum Alloy IP65	Power Consumption	4W	Output nodes	5A/250VAC SPDT	Rotation rate	1RPM	Operating temperature	-10~80°C	Specific Gravity	0.5g/cm³	Connection	G1"/G1-1/2" /G3/4"
Terminalblock	Aluminum Alloy IP65														
Power Consumption	4W														
Output nodes	5A/250VAC SPDT														
Rotation rate	1RPM														
Operating temperature	-10~80°C														
Specific Gravity	0.5g/cm³														
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



All your process control needs

Valvelink Co., Ltd. (VIETNAM)

Address: 399 Nguyen Thi Kieu Street, Tan Thoi Hiep Ward, Ho Chi Minh City, Vietnam
Hotline: +84 933 603 406
WhatsApp: +84 979128773
Email: contact@valvelink.vn / tech@valvelink.vn
Website: valvelink.vn

Valvelink Europe Ent (EUROPE)

Address: Via Roma 108, Cassina de Pecchi, 20060, Milan, Italy
Hotline: +90-2123818702
WhatsApp: +84 979128773 / +84 933 603 406
Email: sales@valvelink.eu
Website: valvelink.eu

Website



WhatsApp



Valvelink Sdn Bhd (ASEAN)

Address: 1-20-02, M-City Ampang, Jalan Ampang, 57450 Kuala Lumpur, Malaysia
Hotline: +60-173700361
WhatsApp: +84 979128773 / +84 933 603 406
Email: sales@valvelink.asia
Website: valvelink.asia

Boon (tianjin) Environment Technology Industry Co.,ltd. (CHINA)

Address: Unit B, 1F, Building A, No. 5 Ziyang Road, Nankai District, Tianjin, China
Hotline: +84 979128773
WhatsApp: +84 933 603 406
Email: sales@valvelink.asia
Website: valvelink.com.cn