

Distributor: Sider Electronic Industries Ltd.  
Tel: 852-23892522 Fax: 852-23574546  
Email: info@sider.com.hk URL: www.sider.com.hk

## SWING TYPE LEVEL SWITCH

Model **SWM** **SWINGMASTER**<sup>®</sup>

Epoch-making Level Switch for powder  
[ Can be a standard for years to come ]



Level Switch in a new category  
"SWING MASTER"

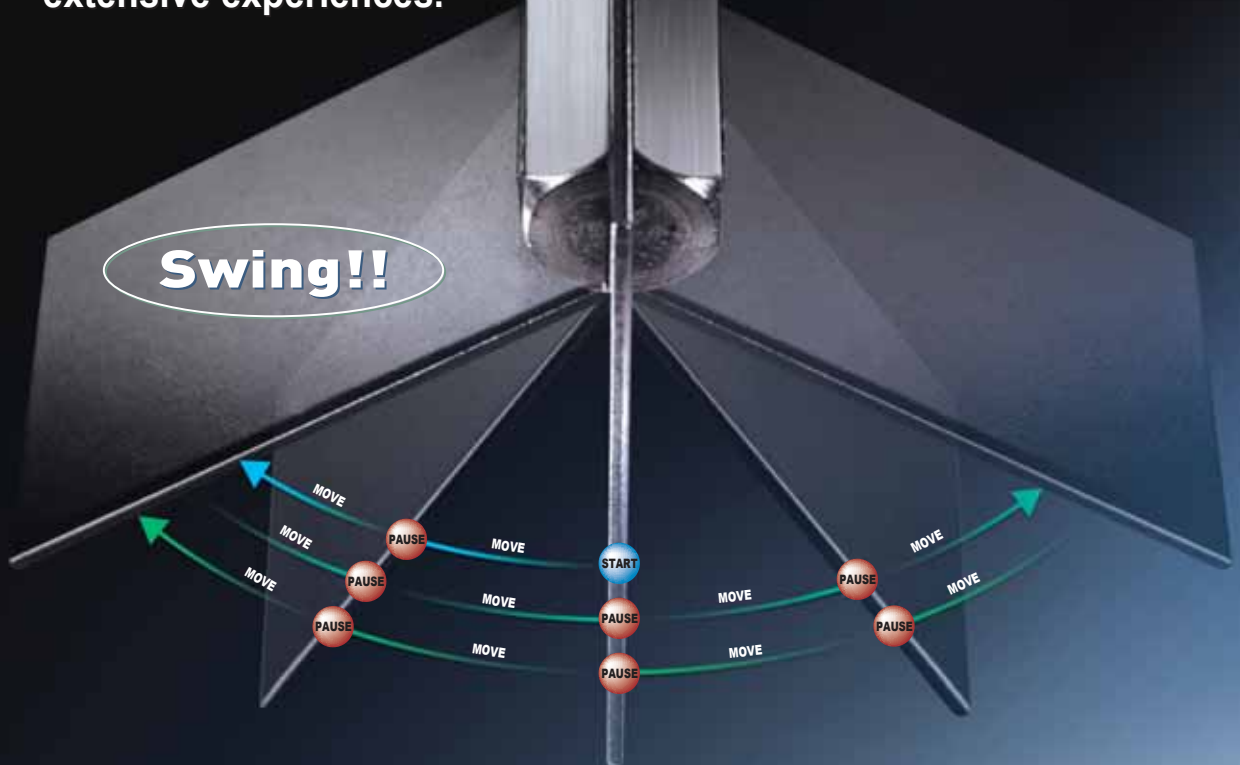


An isolation completely separates the electronic  
circuit from the swing unit.  
A utility level switch for various applications

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# THE SWING MOVEMENT STANDS ON SOPHISTICATED PRINCIPLES

One and only development for Powder Level Switch, based on our extensive experiences.



## WHY IS INSTANTANEOUS EFFECTIVE?

The instantaneous movements ensure the following:

- Reliably detect powders with low specific gravity as well!
- Hardly affected by contamination, it can be applied to any substances to be measured.
- Even if the paddle is buried, the torque is constant and its reversion is stable.



### ■ Standard Specification

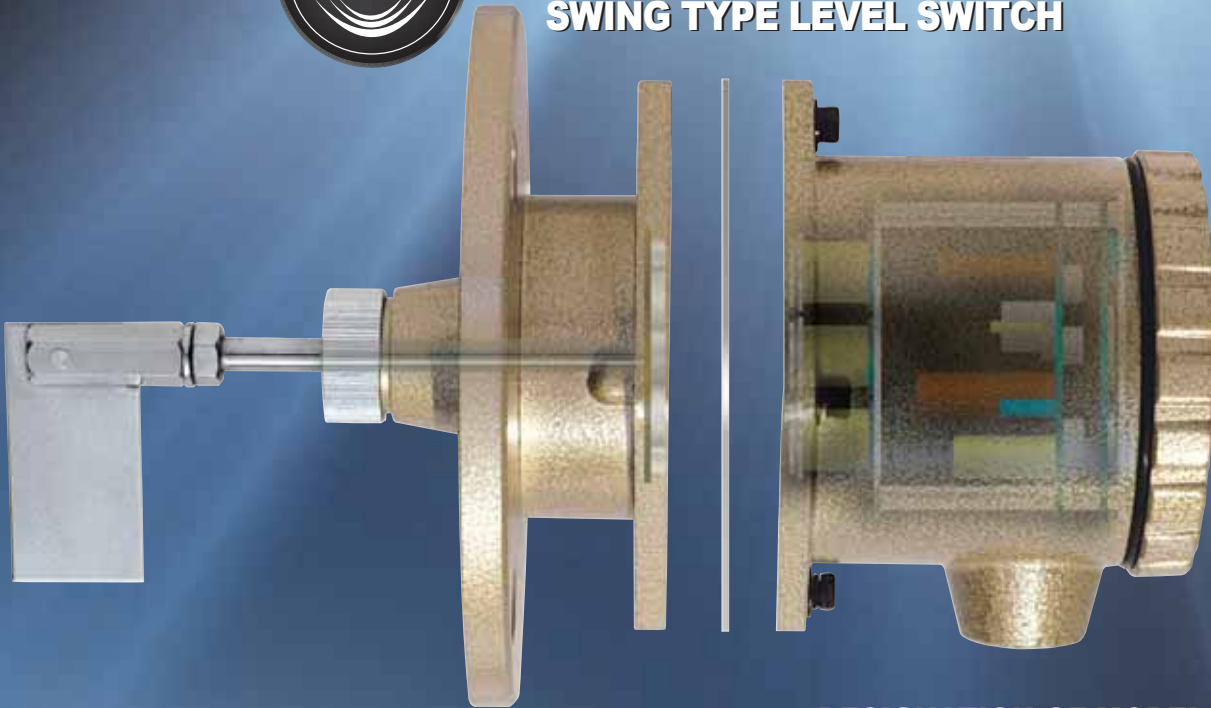
- Power** : 100~240VAC 50/60Hz  
(Allowable range 85~250VAC)
- Power Requirements** : 12W
- Output** : Relay contact 1C  
(250VAC 5A)
- Measuring Interval** : about 5 seconds
- Temperature** : Ambient 50°C  
Inside Tank 60°C  
(Max 250°C /Withstand  
pressure 19.6KPa)  
Consult with us for high  
temperature/pressure.
- Withstand Pressure** : 0.2MPa  
Option 0.5MPa
- Detection** : Specific Gravity over 0.1
- Display** : LED in green → indicate (on swing)
- Installation** : LED in red → indicate (detecting)  
Flange 5K65A JIS equiv
- Housing** : Material AC  
Material AC  
Protection grade IP55 equiv.  
Painted Color hammer-net gold
- Paddle/ Main Shaft** : Material 304SS
- Cable conduit** : G1/2

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# SWM SWINGMASTER®

## SWING TYPE LEVEL SWITCH



### DESIGNATION OF MODEL

SWM-□□□□□□

#### Shape of Detector

- S Protective-tube Extension Type
- F Flexible Type
- A Shaft-length Adjustment Type
- Y Protective-cover Type
- H Heat-resistant Type (Max 250°C/  
Withstand Pressure 19.6KPa)  
\*Consult with us for high temperature/pressure.

#### Shape of Main body

- 8B 8B Shaft Φ8
- 15B 15B Shaft Φ15

### REASONS FOR A ISOLATION BEING APPLIED

Transmittance of movements from electronic circuit to swinging part by using a magnetic force via the isolation enables the following:

- To prevent measured substances from intruding into instruments.
- To ignore an excessive load from the paddle.
- It can be applied to high-pressured tanks as well. (Standard 0.2Mpa, option 0.5Mpa)

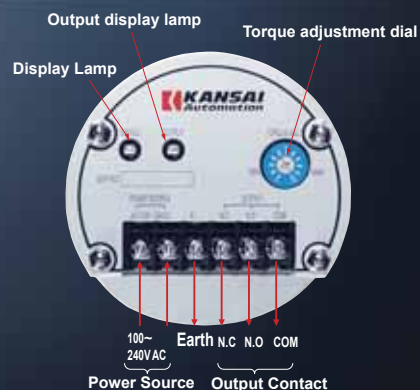


**SWM-8BA**  
Shaft-length Adjustment Type

**SWM-15B**  
Load resistance Type

**SWM-8B (SUS)**  
Standard Type

### Amplifier wiring



### WHY IS THE ELECTRONIC MOTIVITY APPLIED?

A driving force by not a motor but an electronic circuit realizes the following:

- The torque is constant for a long period of time, and its operation is stable.
- There being no moving part such as gear, clutch and so on, it secures a dramatically long life.
- The unit comes up with the universal power supply(100~240VAC) that was likely impossible in this product category

## DIMENSIONAL DRAWING

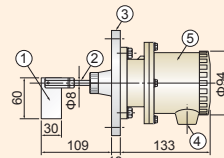
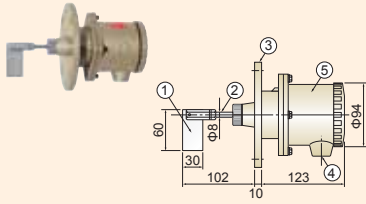
### SWM-8B

Standard Type

•SWM-8B (AC)

Withstand Pressure  
0.2MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC



•SWM-8B (SUS)

Withstand Pressure  
0.5MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	304SS
4	Cable conduit	AC
5	Housing	AC

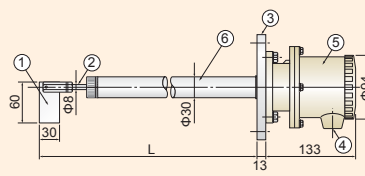
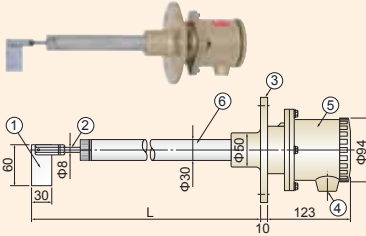
### SWM-8BS

Protective-tube Extension Type

•SWM-8BS (AC)

Withstand Pressure  
0.2MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	304SS



•SWM-8BS (SUS)

Withstand Pressure  
0.5MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	304SS
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	304SS

### SWM-8BH

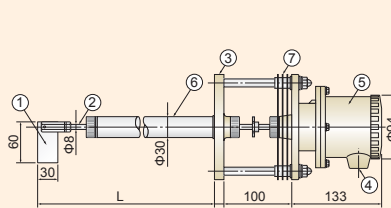
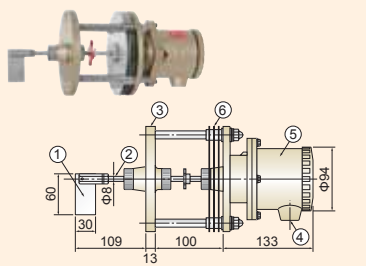
Heat-resistant Type

(Max250°C / stand pressure 19.6KPa)

\*Consult with us for high temp/pressure.

•SWM-8BH (SS)

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	SS400/304SS
4	Cable conduit	AC
5	Housing	AC
6	Radiation fin	ALP



•SWM-8BHS (AC)

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	SS400/304SS
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	304SS
7	Radiation fin	ALP

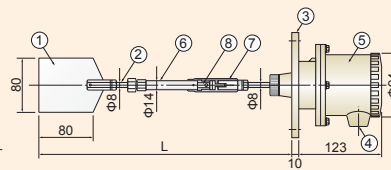
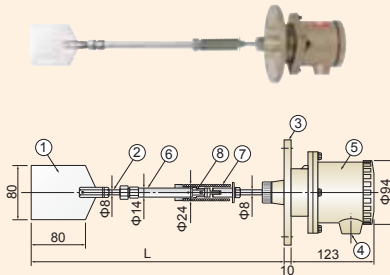
### SWM-8BA

Shaft-length Adjustment Type

•SWM-8BA(AC-SP)

Withstand Pressure  
0.2MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	304SS/SGP
7	Spring	SWP/304SS
8	Universal joint	SS400/304SS



**L-dimension Table**

(8BA shaft-length adjustment dimensions)

No.	Max dimension (mm)		No.	Min Dimension (mm)	
	Max dimension (mm)	Min Dimension (mm)		Max dimension (mm)	Min Dimension (mm)
1	524	398	5	2,524	1,398
2	1,024	648	6	3,024	1,648
3	1,524	898	7	4,024	2,148
4	2,024	1,148	8	5,024	2,648

•SWM-8BA (AC)

Withstand Pressure  
0.2MPa

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	SUS304/SGP
7	Joint cover	NBR
8	Universal joint	SS400

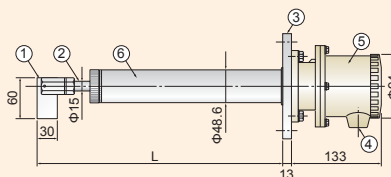
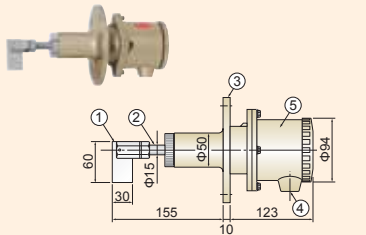
### SWM-15B

Load resistance Type

•SWM-15B (AC)

Withstand Pressure  
0.2MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC



•SWM-15BS(SUS)

Withstand Pressure  
0.5MPa

1	Paddle	304SS
2	Main shaft	304SS
3	Flange	304SS
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	304SS

## Line of business

- Rotary Paddle Type Level Switch
- Vibration Type Level Switch
- Swing Type Level Switch
- Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
- Capacitance Type Level Indicator
- Diaphragm Type Level Switch
- Tilt Switch
- Leak Type Level Switch
- Microwave Switch
- Sounding Bob Type Level Indicator
- Flow Switch
- Conductance Type Level Switch
- Float Switch
- Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- Zirconia Oxygen Analyzer
- Laser Type Level Indicator
- RADAR Type Level Indicator
- On-line Sensors for Accurate Liquid Analysis
- Ultrasonic Flow meter

## Nuclear Power Generation to Rice Milling

All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

KANSAI Automation Co.,Ltd.



Design, development and manufacture of level measuring sensors

\*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument.

\*The specifications herein may be subject to change without advance notice.

Agent