

# SWING TYPE LEVEL SWITCH

## **SWM** SWINGMASTER

A revolutionary level switch system for powders!

[The future standard for powders!!]



Level Switch in a new category  
"SWING MASTER"



The partition wall completely separates the electronic circuit from the swing unit.  
A utility level switch for various applications

# THE SWING MOVEMENT STANDS ON SOPHISTICATED PRINCIPLES

Many years of experience and technology have created the ideal measurement principle for powder level switches.



## 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.



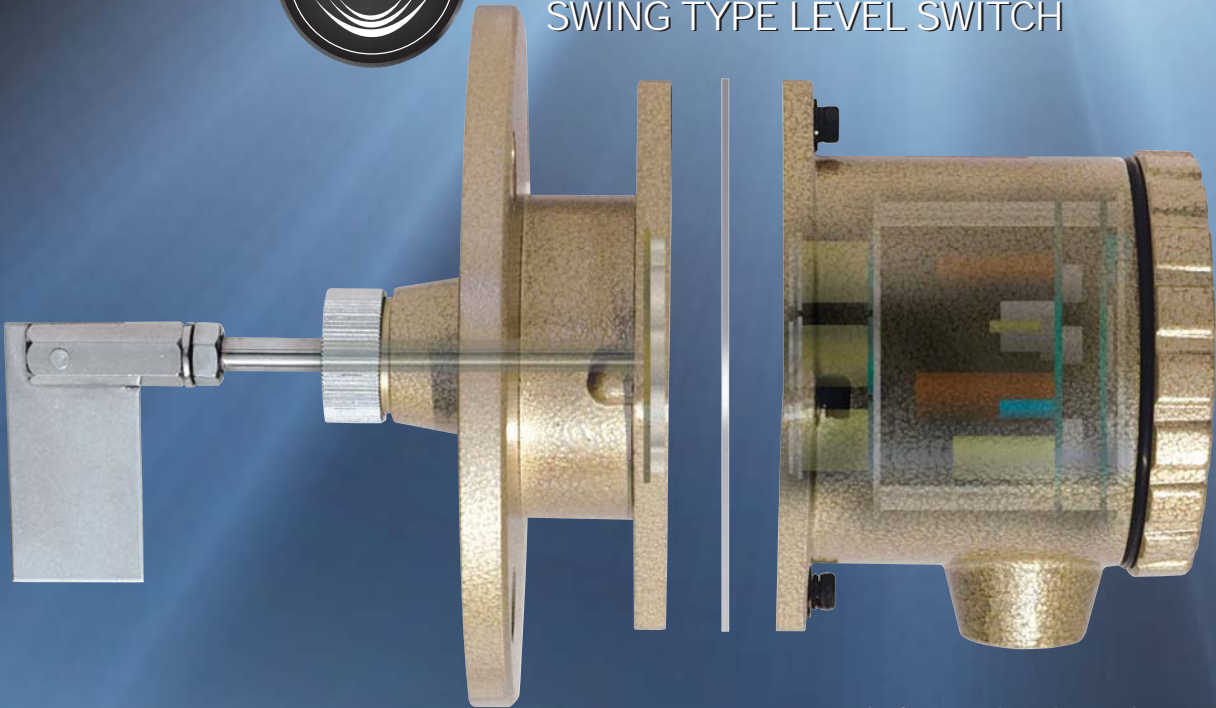
### ■ Standard Specification

<p><b>Power</b> : 100~240VAC 50/60Hz (Allowable range 85~250VAC) Option: DC power (DC20~36V)</p> <p><b>Power Requirements</b> : 12VA</p> <p><b>Output</b> : Relay contact 1C (250VAC 5A)</p> <p><b>Temperature</b> : Ambient 50°C Inside Tank 60°C (Max 250°C /Withstand pressure 0.02MPa) Consult with us for high temperature/pressure.</p> <p><b>Withstand Pressure</b> : 0.2MPa Option 0.5MPa</p>	<p><b>Detection</b> : Specific Gravity over 0.1</p> <p><b>Display</b> : LED in green → indicate (Paddle swinging)</p> <p><b>Installation</b> : LED in red → indicate (detecting) Flange Equivalent to JIS5K65A</p> <p><b>Housing</b> : Material AC Protection grade: IP67 (AC flange) IP55 (SUS flange, Heat resistant type) Painted Color hammer-net gold</p> <p><b>Paddle/ Main Shaft</b> : Material SUS304</p> <p><b>Cable conduit</b> : G1/2</p>
---	--



# SWM SWINGMASTER

## SWING TYPE LEVEL SWITCH



### REASONS FOR A PARTITION WALL BEING APPLIED

Transmittance of movements from electronic circuit to swinging part by using a magnetic force via the partition wall 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)

### DESIGNATION OF MODEL

SWM-□□□□□□□□

#### Vibration proof

- Blank Standard
- M Amprifer, molding resin

#### Type of Detection Unit

- S Extension Supporting Pipe Type
- F Flexible Shaft Type
- A Adjustable Shaft Type
- Y Supporting Cover Type
- H Heat Resistant Type(Max 250°C/ Withstand Pressure 0.02MPa)  
\*Consult with us for high temperature/pressure.

#### Shape of Main body

- 8B 8B Shaft Φ8
- 15B 15B Shaft Φ15



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

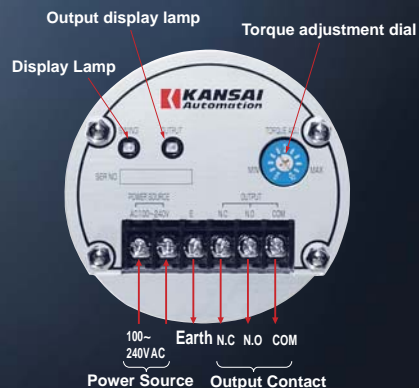


**SWM-15B**  
Load resistance Type



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

### Amplifier wiring



### WHY IS THE ELECTRONIC CIRCUIT APPLIED?

The reason for generating driving force with electronic circuit instead of motor

- 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 significantly 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

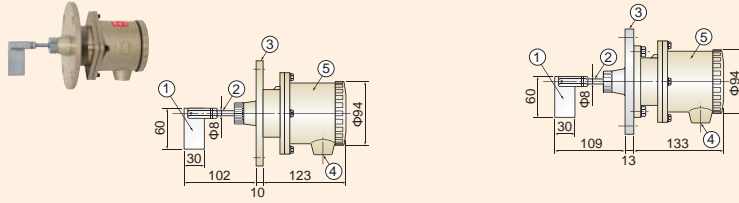
Standard Type

Withstand Pressure  
0.2MPa

#### •SWM-8B (AC)

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC

Weight: about 1.9 kg



#### •SWM-8B (SUS)

Withstand Pressure  
0.5MPa

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	SUS304
4	Cable conduit	AC
5	Housing	AC

### SWM-8BS

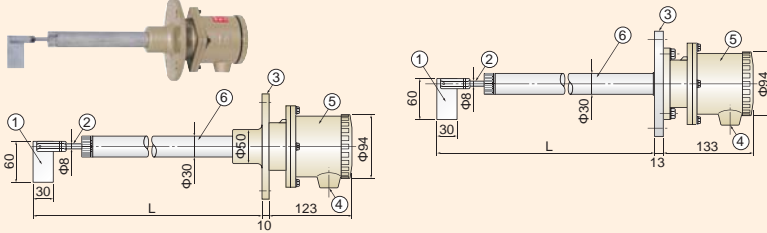
Protective-tube Extension Type

Withstand Pressure  
0.2MPa

#### •SWM-8BS (AC)

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	SUS304

Weight: about 2.25 kg



#### •SWM-8BS (SUS)

Withstand Pressure  
0.5MPa

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	SUS304
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	SUS304

### SWM-8BH

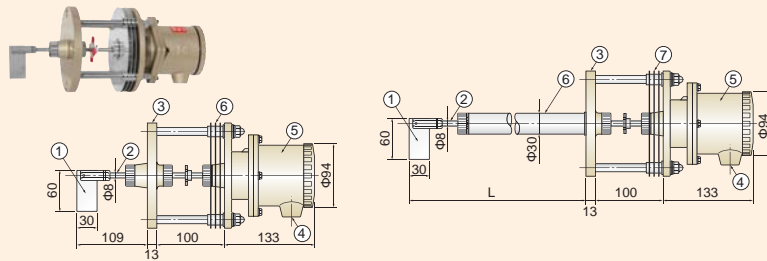
Heat-resistant Type

(Max250°C / Withstand pressure 0.02MPa)  
\*Consult with us for high temp/pressure.

#### •SWM-8BH (SS)

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	SS400/SUS304
4	Cable conduit	AC
5	Housing	AC
6	Radiation fin	ALP

Weight: about 4.65 kg



#### •SWM-8BHS (AC)

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	SS400/SUS304
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	SUS304
7	Radiation fin	ALP

### SWM-8BA

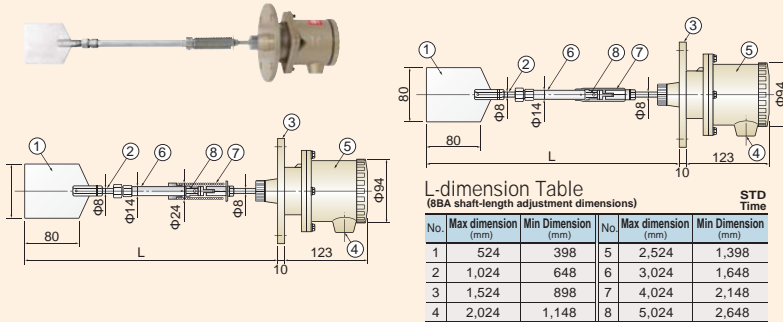
Shaft-length Adjustment Type

Withstand Pressure  
0.2MPa

#### •SWM-8BA(AC-SP)

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

Weight: about 2.45 kg



L-dimension Table  
(8BA shaft-length adjustment dimensions)

No.	Max dimension (mm)		Min Dimension (mm)		STD Time
	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

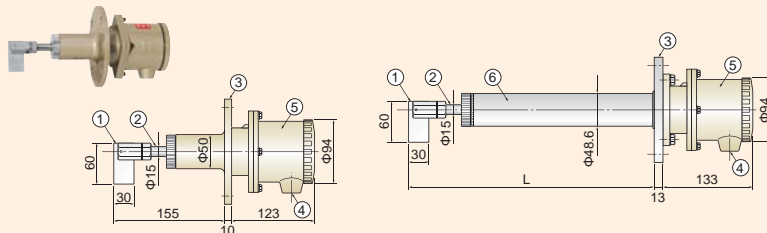
Load resistance Type

Withstand Pressure  
0.2MPa

#### •SWM-15B (AC)

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	AC
4	Cable conduit	AC
5	Housing	AC

Weight: about 2.45 kg



#### •SWM-15BS(SUS)

Withstand Pressure  
0.5MPa

1	Paddle	SUS304
2	Main shaft	SUS304
3	Flange	SUS304
4	Cable conduit	AC
5	Housing	AC
6	Protective tube	

## 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
- Ultrasonic Flow meter

\*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.

General Manufacturer of Level Controllers for Powder, Granules, and Liquid



**KANSAI Automation Co., Ltd.**

Headquarters:

2-14, Togano-cho, Kita-ku, Osaka 530-0056, Japan  
TEL. 81-6-6312-2071 FAX. 81-6-6314-0848  
e-mail: info@kansai-automation.co.jp

<http://www.kansai-automation.co.jp>

**Tokyo Branch:** 1-29-6, Hamamatsu-cho, Minato-ku, Tokyo 105-0013, Japan  
TEL. 81-3-5777-6931 FAX. 81-3-5777-6933

**Nagoya Office:** 3-10-17, Uchiyama, Chigusa-ku, Nagoya 464-0075, Japan  
TEL. 81-52-741-2432 FAX. 81-52-741-1588

**Hiroshima Office:** 13-11, Noborimachi, Naka-ku, Hiroshima 730-0016, Japan  
TEL. 81-82-222-1555 FAX. 81-82-222-1556

**Kyushu Office:** 1-1-21, Komemachi, Kokura Kita-ku, Kitakyushu 802-0003, Japan  
TEL. 81-93-511-4741 FAX. 81-93-511-4580

official site



Agent