



SWING TYPE LEVEL SWITCH

Model **SWM** **SWINGMASTER®**

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



Level Switch in a new category
"SWING MASTER"



PATPEND

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

THE SWING MOVEMENT STANDS ON SOPHISTICATED PRINCIPLES

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

Swing!!



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.



SWM-8B
Standard Type



SWM-8BS
Protective-tube



SWM-8BH
Heat-resistant Type

■ 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

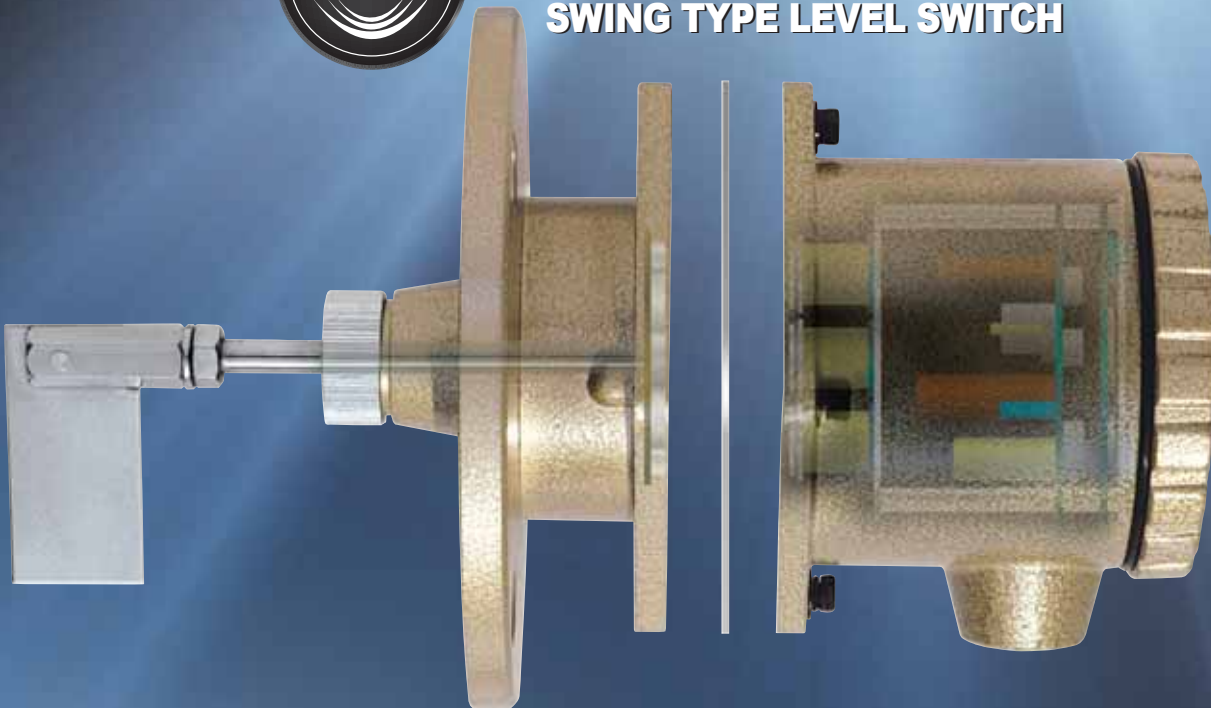
Paddle/ Main Shaft : Material 304SS

Cable conduit : G1/2



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)

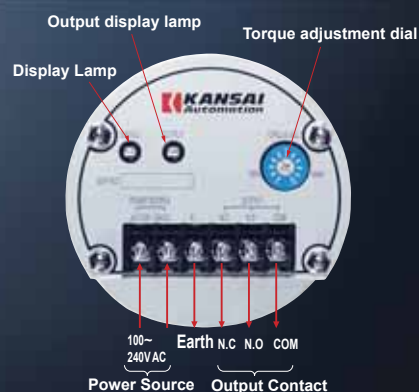


SWM-8BA
Shaft-length Adjustment Type

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

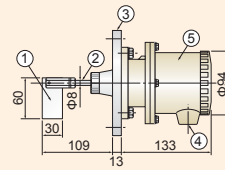
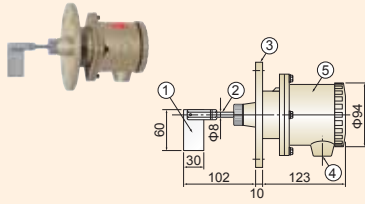
SWM-8B

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

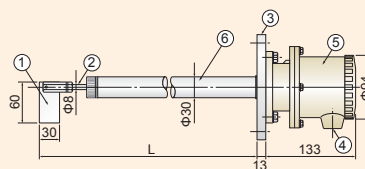
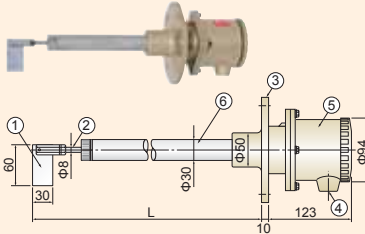
SWM-8BS

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

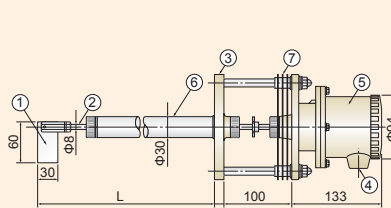
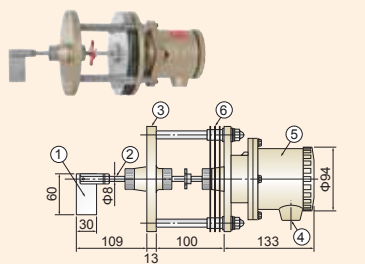
Heat-resistant Type

(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

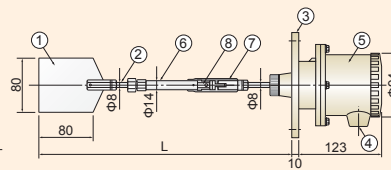
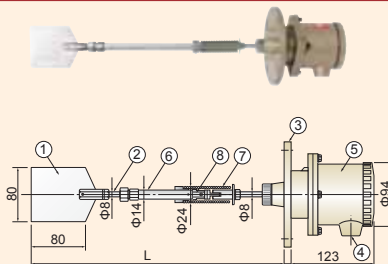
SWM-8BA

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)	Min Dimension (mm)	No.	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

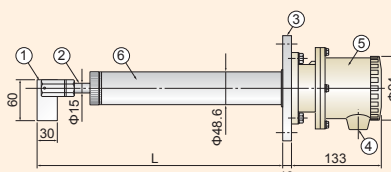
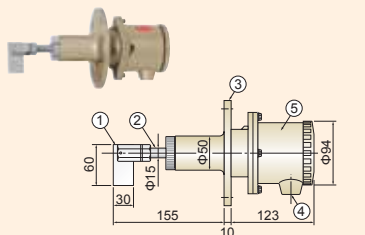
SWM-15B

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

*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.

Nuclear Power Generation to Rice Milling

All-round 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 : 3-31-27, Uchiyama, Chigusa-ku, Nagoya 464-0075, Japan

TEL. 81-52-741-2432 FAX. 81-52-741-1588

Kyushu Office : 1-2-39, Asano, Kokura Kita-ku, Kitakyushu 802-0001, Japan

TEL. 81-93-511-4741 FAX. 81-93-511-4580



Design, development, and manufacture of level measuring sensors

Agent