# MICROWAVE TYPE LEVEL SWITCH Model MWS2-24TN/24RN



The attenuation of microwave detects levels of powder, granules and blocks as well as pulverized materials.

LEVEL SENSORS

KANSAI Automation Co., Ltd.

## **MWS2-24TN/24RN** MICROWAVE TYPE LEVEL SWITCH

### Reliable detection for wastes, coal, ballast, granules and others

24GHz Microwave—Compact, Light and Quality Level Switch

- It may hardly be affected by dirt, fouling, or scale adhesion on the sensing surface.
- A new type of transmitter and receiver of 24GHz being adopted, it is compact and light.
- Wiring and necessary adjustment are easier with a new design on P.C.B.
- It can accurately detect the paper garbage whose detection was impossible by any other detecting methods.

#### Principle of Operation

MWS2 Type Microwave Switch is a level switch consisting of a transmitter and a receiver, both of which are installed face to face each other. The transmitter (MWS2-24TN) transmits microwaves in 24GHz toward the receiver (MWS2-24RN), which, upon receipt of them, provides an output of the contact signals that the tank is empty. When there is an obstruction between the transmitter and the receiver, however, microwaves are reflected and absorbed, thus making the receiver unable to receive them and outputting the contact signals that the tank is full.



#### **Specifications**

Type Designation: Transmitter = MWS2-24TN Receiver = MWS2-24RN

Power Supply: 105/210VAC ±10% 50/60Hz \*Specification for 24V Power source (option)

Frequency: 24GHz

Operating Distance: Switching System by Range SW

Switch Position Setting Detrct 1 15m 2 25m 3 35m

\*It is set to [1] in shipment

Output Contact: 1×SPDT, 250VAC 5A Delay Function: ON Delay 0.1 to 10 seconds Power Consumption: Transmitter 2VA, Receiver 5VA Ambient Temperature : Body -20°C to +80°C (Built-in Structure) -20°C to +60°C (Remote model) Amplifier -20°C to +60°C \*No condensation or Freeze required Enclosure Rating: IP-67 Color: Gold

Weight: Transmitter 1.80kg Receiver 1.85kg Flange: 5K 50A JIS (AC)



#### Wireing



#### 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 Type Switch
- Sounding Bob Type Level Indicator 
  Ultrasonic Flow meter
- 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

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

: Remote Model

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Agent

\*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.