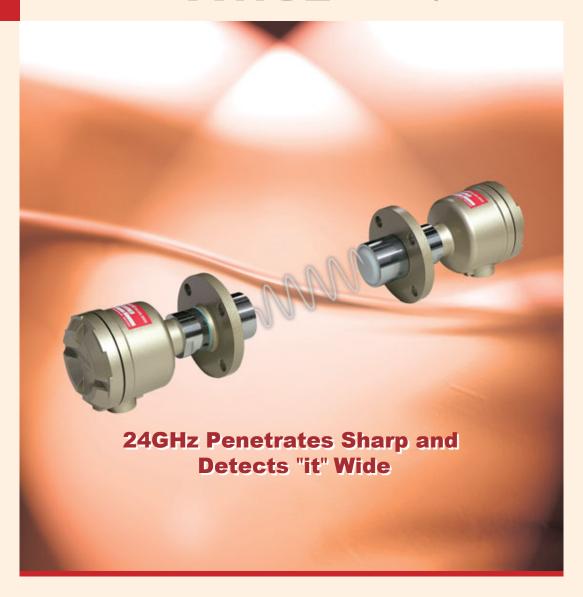
# MICROWAVE TYPE LEVEL SWITCH Model MWS2-24TN/24RN



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

## **MWS2-24TN/24RN**

**MICROWAVE TYPE LEVEL SWITCH** 

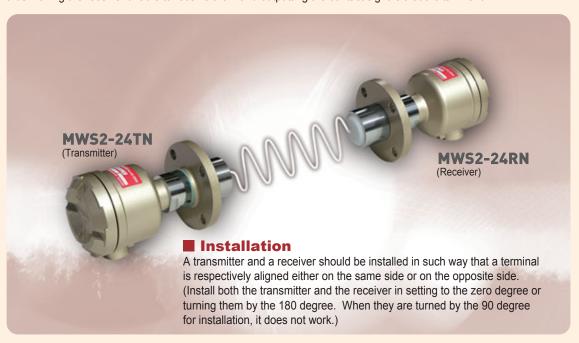
## Reliable detection for wastes, coal, ballast, granules and others

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

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: -20°C to +60°C

Enclosure Rating: IP-67

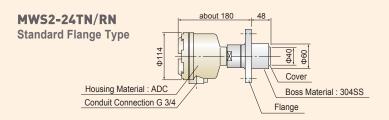
Color: Gold

Weight: Transmitter 1.80kg

Receiver 1.85kg

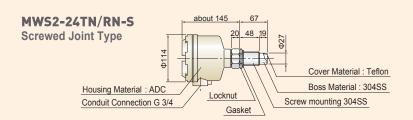
Flange: 5K 50A JIS (AC)

#### **Product Lineup**

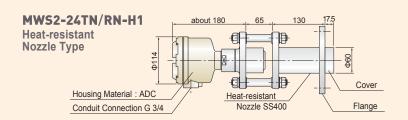


Temperature limit	max.60°C
Usage environment	Outdoor
Flange Size	JIS 5K50A/AC
Cover Material	PA
Setting distance	max.35m

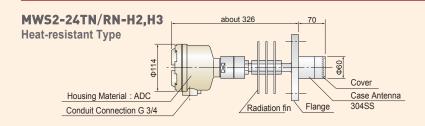
JIS 5K65A, AC/304SS Possible production



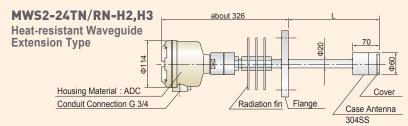
Temperature limit	max.60°C
Usage environment	Outdoor
Flange Size	G1B(Screwed)/304SS
Cover Material	Teflon
Setting distance	max.1m



Temperature limit	max.120°C
Usage environment	Indoor
Flange Size	JIS 5K65A/SS400
Cover Material	Teflon
Setting distance	max.35m



MODEL	rem	berature iimit	Gasket Material		
MWS2-24TN/RN-H2	max.250°C		Nonasbestos		
MWS2-24TN/RN-H3	max.400°C		Graphite		
Usage environm	ent	Outdoor			
Flange Size		JIS 5K6	5A/304SS		
Cover Material		Ceramic			
Setting distance		max.3m			



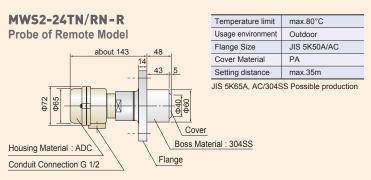
MWS2-24TN/RN-H2	max.250°C		Nonasbestos		
MWS2-24TN/RN-H3	max.400°C		Graphite		
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Usage environment		Outdoor			
Flange Size		JIS 5K65A/304SS			
Cover Material		Ceramic			
Setting distance		max.3m			

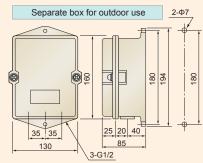
MODEL Temperature limit Gasket Material

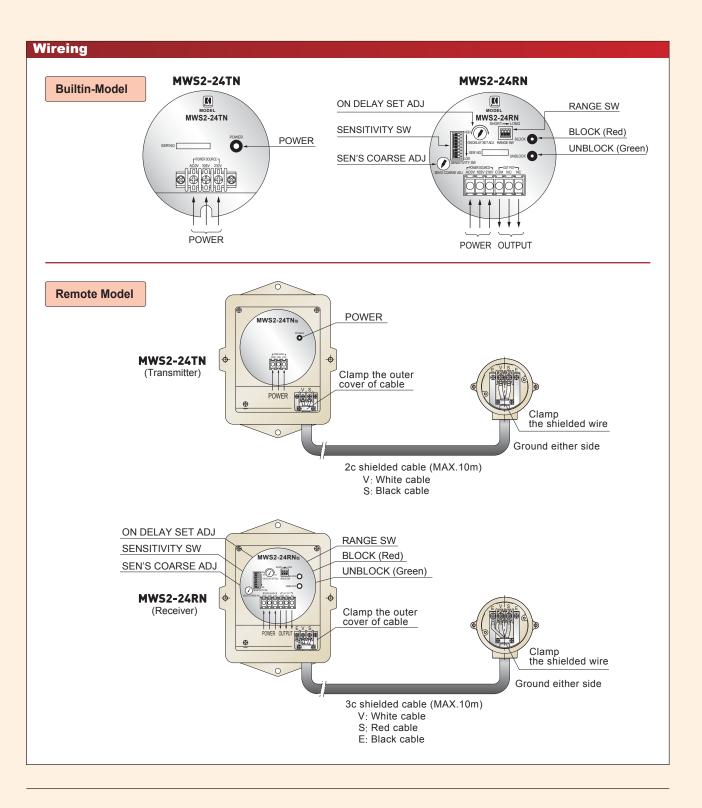
Installation

\*Use temperature of 400°C or more are required for meeting.

\*Model specifications for resistance to vibration all measures (resin filling) model is available at the end of production - it comes with M 24VDC production specification also available (optional).







#### 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

- Conductance Type Level 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
- Sounding Bob Type Level Indicator Ultrasonic Flow meter
- · Flow Switch

\*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.

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

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