



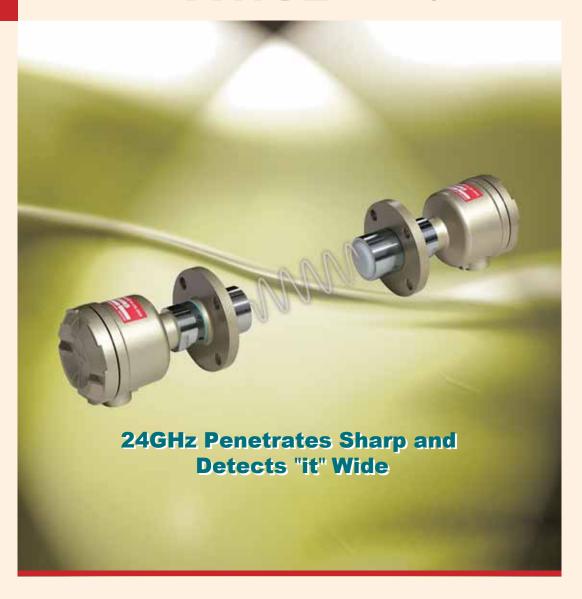
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## **MICROWAVE TYPE LEVEL SWITCH** Model MWS2-24TN/24RN



# 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.

#### **OPERATING PRINCIPLE**

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: AC105V/210V ±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: 1×SPDT, 250V AC, 5A

Delay Function: ON Delay 0.1 to 10 seconds

Power Consumption: Transmitter 2VA, Receiver 5VA

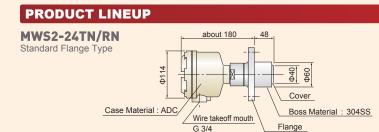
Ambient Temperature: -20°C~+60°C

Housing: IP-55 equivalent

Color: Silver

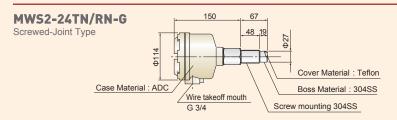
Weight: Transmitter 1.5kg, Receiver 1.6kg

Flange: 5K 50A JIS (AC)

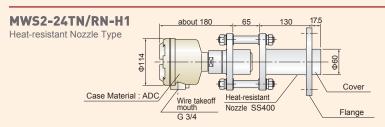


Temperature limit	max.60°C
Usage environment	Outdoor
Flange Size	JIS 5K50A/AC
Cover Material	PA
Setting distance	max.35m

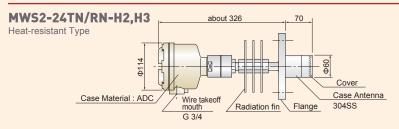
JIS 5K65A, AC/304SS Possible production



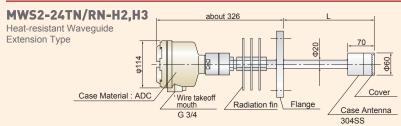
Temperature limit	max.60°C
Usage environment	Outdoor
Flange Size	G1(Screwed)/304SS
Cover Material	Teflon
Setting distance	max.1m



Temperature limit	max.180°C
Usage environment	Indoor
Flange Size	JIS 5K65A/SS400
Cover Material	Teflon
Setting distance	max.35m

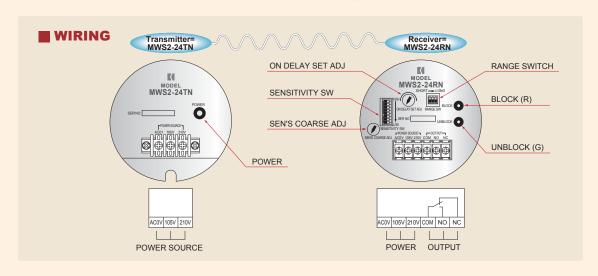


MODEL	Temperature limit		Gasket Material
MWS2-24TN/RN-H2	max.250°C		Nonasbestos
MWS2-24TN/RN-H3	max.400°C		Graphite
Usage environment		Outdoor	
Flange Size		JIS 5K65A/SUS304	
Cover Material		Ceramic	
Setting distance		may 3m	

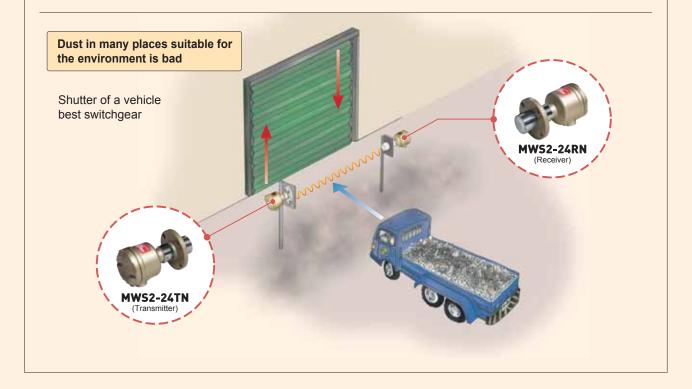


MODEL	Temperature limit		Gasket Material
MWS2-24TN/RN-H2	max.250°C		Nonasbestos
MWS2-24TN/RN-H3	max.400°C		Graphite
Usage environm	ment Outdoor		
Flange Size		JIS 5K65A/SUS304	
Cover Material		Ceramic	
Setting distance		max.3m	

\*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 DC24V production specification also available (optional)



### **APPLICATIONS** In a sealed metal used in place please The Level of feed grains coal waste ore discovery MWS2-24TN MWS2-24RN (Transmitter) (Receiver)



### Line of business

- 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 Ultrasonic Flow meter

- 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
- · 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.

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