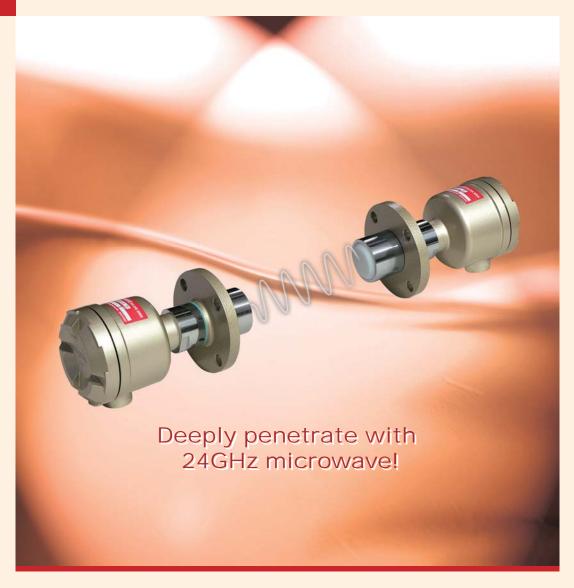
MICROWAVE TYPE LEVEL SWITCH MWS2-24TN/24RN



Microwave attenuation detects levels of powders, granules, blocks, and grinds.



MWS2-24TN/24RN

MICROWAVE TYPE LEVEL SWITCH

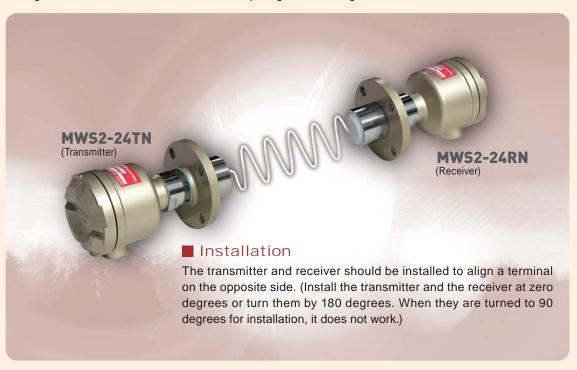
Reliable detection for wastes, coal, gravels, granules and other substances

24GHz Microwave - Compact, lightweight, and high-performance level switch.

- •It is almost unaffected by dirt, adhesion, or scale on the sensor surface.
- •A new type of transmitter and receiver of 24GHz is being adopted, compact and light.
- •Wiring and adjustment are easier with a new amplifier.
- •It can accurately detect the paper garbage, which 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 of empty tank. 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 of full tank.



Specifications

Type Designation: Transmitter = MWS2-24TN

Receiver = MWS2-24RN

Power Supply: 105/210VAC ±10% 50/60Hz

*Option DC24V

Power Consumption: Transmitter 4VA, Receiver 5VA

Output Contact: 1×SPDT, 250VAC 5A max

ON Delay: About 10seconds (variable) **OFF Delay:** About 10seconds (variable)

Frequency: 24GHz

Ambient Temperature: Amplifier -20°C to +60°C

Sensor -20°C to +80°C

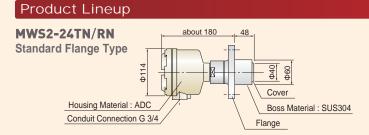
* No freezing, no condensation

Enclosure Rating: IP67

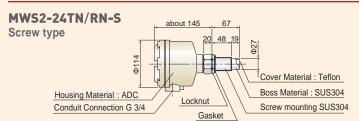
Color: Gold

Weight: Transmitter 1.80kg Receiver 1.85kg

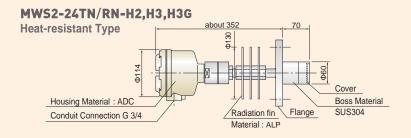
Flange: JIS5K50A (AC)



Temperature limit	max.80°C	
Usage environment	Outdoor	
Flange Size	JIS 5K50A/AC	
Cover Material	PA	
Setting distance	max.35m	
Weight	Transmitter 1.8kg Receiver 1.85kg	
JIS 5K65A, AC or SUS304 available		



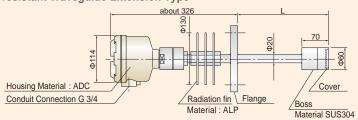
Temperature limit	max.80°C
Usage environment	Outdoor
Flange Size	G1B/SUS304
Cover Material	Teflon
Setting distance	max.2m
Weight	Transmitter 1.8kg Receiver 1.85kg



MODEL	Temperature limit	Gasket Material
MWS2-24TN/RN-H2	max.120°C	Nonasbestos
MWS2-24TN/RN-H3	max.260°C	Nonasbestos
MWS2-24TN/RN-H3G	max.400°C	Graphite
Usage environment	Outdoor	
Flange Size	JIS 5K65A/SI	JS304
Cover Material	Teflon (H2) Cer	ramic (H3,H3G)
Setting distance	max.3m *Con	sult with us
Weight	Transmitter 4 Receiver 4.95	

MWS2-24TN/RN-H2,H3,H3G

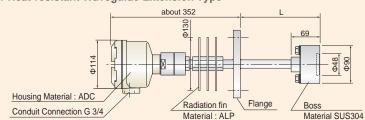
Heat-resistant Waveguide Extension Type



MODEL	Temperature limit	Gasket Material
MWS2-24TN/RN-H2	max.120°C	Nonasbestos
MWS2-24TN/RN-H3	max.260°C	Nonasbestos
MWS2-24TN/RN-H3G	max.400°C	Graphite
Usage environment	Outdoor	
Flange Size	JIS 5K65A/S	US304
Cover Material	Teflon (H2) Ce	ramic (H3,H3G)
Setting distance	max.3m *Cor	nsult with us
Weight	Transmitter 5 Receiver 5.2 (L=150)	
*L=min150~max please contact us.		

MWS2-24TN/RN-H4

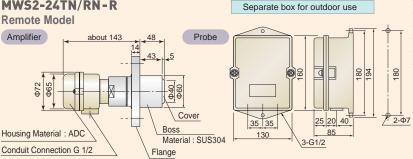
Super Heat-resistant Waveguide Extension Type



MODEL	Temperature limit	Gasket Material	
MWS2-24TN/RN-H4	max.800°C	Metal Solid	
Usage environment	Outdoor		
Flange Size	JIS5K100A/SUS304		
Cover Material	Ceramic		
Setting distance	max.3m *Consult with us		
Weight	Transmitter 8.2kg Receiver 8.25kg (L=150)		

*L=min 150. Consult with us



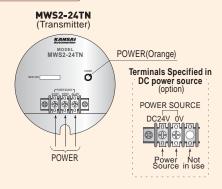


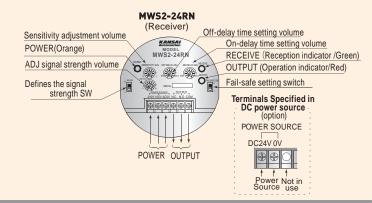
Temperature limit	max.60°C
Usage environment	Outdoor
Flange Size	JIS 5K50A/AC
Cover Material	PA
Setting distance	max.35m

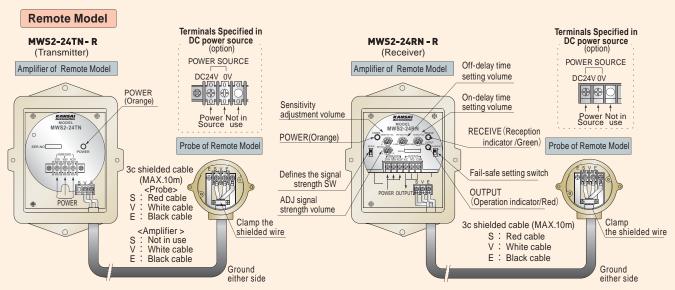
JIS 5K65A, AC or SUS304 available

Wiring

Built In-Model







Type Designation



Vibration-proof

Blank: Standard M: Resin molded amplifier

Heat resistance

Blank: Standard H3: Radiator fin (Max.260°C) H1 Heatproof nozzle (Max.120°C) H3G: Radiator fin (Max.400°C) : Radiator fin (Max.120°C) H4: Radiator fin (Max.800°C) H₂

Mounting

Blank: Flange (Standard 5K50A) S: Screw (Standard G1B)

Instrument Structure

Blank: Integral type R: Remote amplifier type

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

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Α	gent		