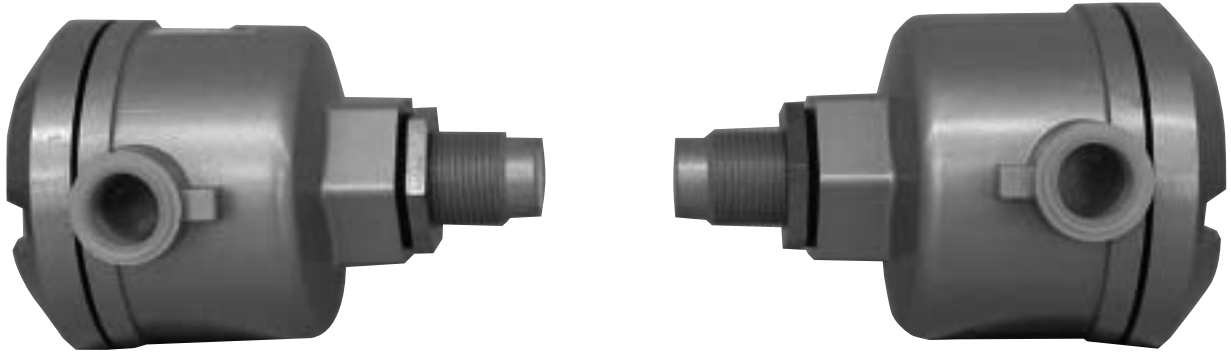


MODEL MWS MICROWAVE LEVEL SENSOR



Features

- Non-contact sensing
- High penetration, 60m operation range
- Unaffected by adverse environments
- Simple beam alignment
- Selectable detection mode, Block or Unblock
- Adjustable on delay timer

General Description

The MWS-ST/SR-11 microwave sensor is a level sensor consisting of a transmitter (MWS-ST-11) and a receiver (MWS-SR-11) installed face to face. The transmitter emits a continuous, low power microwave beam towards the receiver and an output relay is released when the beam is obstructed.

The sensor has wide application across all areas of industry where highly reliable, non-contact level detection is required. The sensor is generally used for process control by monitoring presence or absence of products, flow or non-flow conditions and point level detection in bins and silos. The sensor may also be used as a proximity sensor for detection of vehicles such as dump trucks and rail cars.

Applications

- Garbage level detection in Garbage Incineration Plant
- Flow/Non-flow detection of Cement, Sugar, Firebrick, Wood chip, etc
- Slab position in a hot oven of an iron plant
- High level detection of pig iron for the car at iron plant
- Presence/absence detection in a plastic bottle, Carton box, etc

Technical Advantages

- High Penetration
24 GHz high frequency is not attenuated by dust, moisture, or vapor, and easily penetrates process build-up on antenna, firebrick, refractory etc.
- No Angle Adjustment Required
Approx. 30 degrees beam spread prevents misalignment.
- On delay timer
On delay time, adjustable 0.1 to 10 seconds, prevents instantaneous detection of falling material whilst filling.
- Safety of Microwaves
Complies with FFC Title Rule 15 and OSHA exposure specification stated in Section 1910.97.

Specifications

Model	MWS-ST-11	MWS-SR-11
Description	Transmitter	Receiver
Drawing		
Mounting	G1	
Supply Power	100 or 200V AC \pm 10%, 50/60Hz	
Power Consumption	Approx. 2VA Max.	
Control Output		1 SPDT, 250V 3A AC (Resistive) 4-5: Normally Open contact 5-6: Normally Closed contact
Detection Time Delay		Adjustable between 0.1 to 10 seconds
Operating Temperature	-10°C to 55°C	
Maximum Pressure	500kPa / 5bar	
Frequency	Approx. 24.2 GHz	
Material	Housing	ADC12
	Face	PTFE
Cable Entry	G3/4	
Protection	IP65 equivalent	
Separation Range	L: 6m or H: 60m, selected by switch	
Indication	Green LED for Power status	Red LED for Detection status Green LED for Receiving microwave

TRANSMITTER



RECEIVER

