



## MICROWAVE SWITCH SERIES

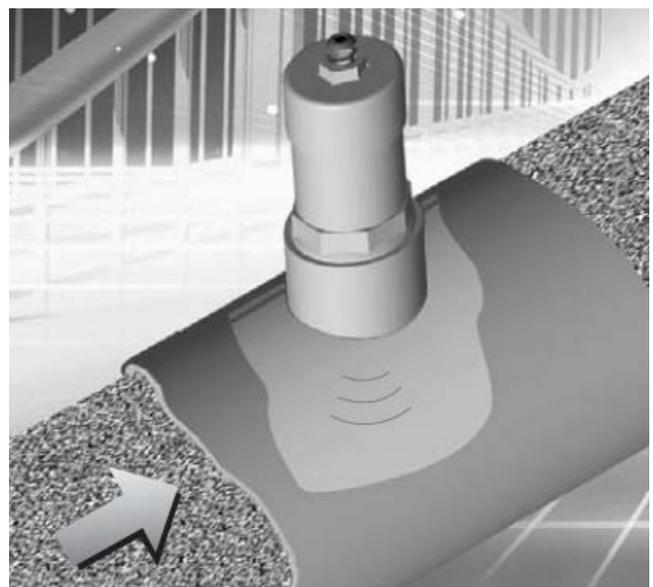


**LEVEL SWITCH**

**GDSS 20**

**FLOW DETECTOR**

**GDSS**



# MICROWAVE LEVEL SWITCH - GDSS 20

## Measurement Principle

## Application

GDSS20 microwave level detector, based on the latest microwave technology and consisting of transmitters and receivers, can be used to detect material levels, control material flowing or counting material bulks.



Microwave level detector provides a method of non-contact measurement, so it can be installed in silos, carrier pipes, rods or free fall extensions. According to different models, it can be applicable for a range of (0 ~ 8) m with customized wider range. For any vessel shell or carrier pipe of non-metallic materials, measurement can be directly conducted from the outside.

Due to the adoption of special non-metallic window materials, detectors can be completely separated from the measured media, thus being able to measure corrosive and abrasive materials, bulk materials or applied to high temperature or high pressure conditions.

With adapters equipped, detector can be applicable in such conditions with pressure up to 2MPa and operating temperature up to 700 C.

## Technical Specifications

Measurement range:	0-8mtrs
Process connection:	G1½A 1½NPT flange, isolation flange
Working pressure:	0....1MPa or 2MPa (Process Adapter)
Process temperature:	-20....80° C -40....220° C (with process adapter) Max 700° C (Ceramic Flange)
Ambient temperature:	-20....60° C
Housing material:	Stainless steel 316L
Protection level:	IP67
Power supply:	16....30 V DC
Relay output:	SPDT
Capacity of relay output contact:	1A 250V AC
Relay time delay:	1-60 sec (adjustable)

# MICROWAVE FLOW DETECTOR - GDSS

## Principle

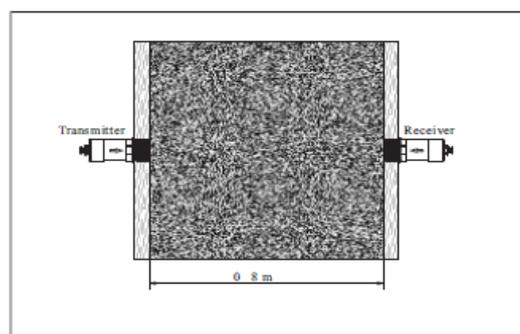
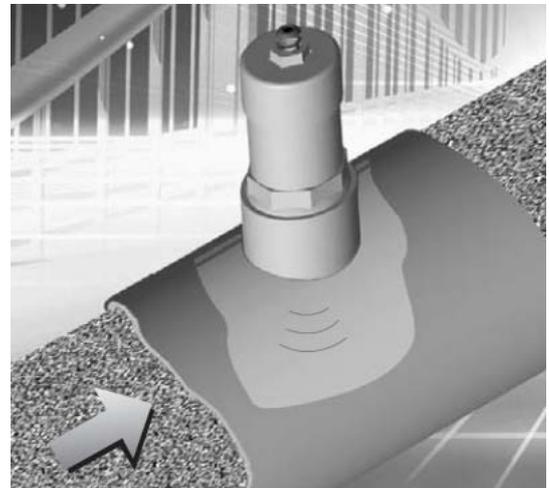
GDSS microwave solid flow switch is invented to detect material conditions in pipes such as flowing, blocking or emptying and detect flowing material over conveyor belts in transfer chutes with the advanced microwave technology and Doppler principle.

The system promotes continuous and efficient operations by informing users that solid or powder materials are flowing and alerts them if the flow status has changed, power has been lost, or if communication between the Remote Sensor Probe and the Control Console has been interrupted.



## Technical Specifications

Housing Material:	Stainless Steel 316L
Protection Level:	IP 67
Power Supply:	16....30V DC/ 90....240V AC
Measurement Range:	0....2m
Relay Output:	SPDT
Capacity of Relay Output Contact:	1A 250V AC
Relay Time Delay:	Max 15s
Working Pressure:	1....20MPa (Process Adapter)
Process Temperature:	-20 ...+80° C -20 ...+220° C (Process Adapter) -Max 700° C (Ceramic Flange)
Ambient Temperature:	-20 ...+60° C
Storage and Transportation Temperature:	-40...+70° C
Relative Humidity:	<95%



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