

Bulk Material Level Measurement

For simple storage silos

1 Sounding V

- Mature sensing weight principle
- Easy set up & reliable performance
- Interval timer & fault alarm integrated



2 Rotary Paddle Level Switch

- Mature principle with light-weight and Mrobust construction
- Suitable for granular and bulk solid
- Probe length Max. 750mm



For dusty hoppers

3 Pulse Radar Type Microwave Level Meter

- 26GHz radar technology
- Maximum 70m long range
- 2-wire, HART communication



4 Capacitance Level Switch

- Wide variety of applications from powder to bulk solid
- Probe electrode and wire-extension available
- High temperature type available



5 Ultrasonic Transmitter

- Wider variety of applications
- Faster response time
- Maximum 70m long range



6 Vibrating Level Switch

- Applicable for low specific gravity powder
- Probe construction efficient for build-up
- Probe length Max. 1500mm



For high temp. furnaces, smelters, incinerators

7 FMCW Type Microwave Level Meter

- FMCW radar technology
- Originally designed for furnace
- 10mW microwave oscillation power



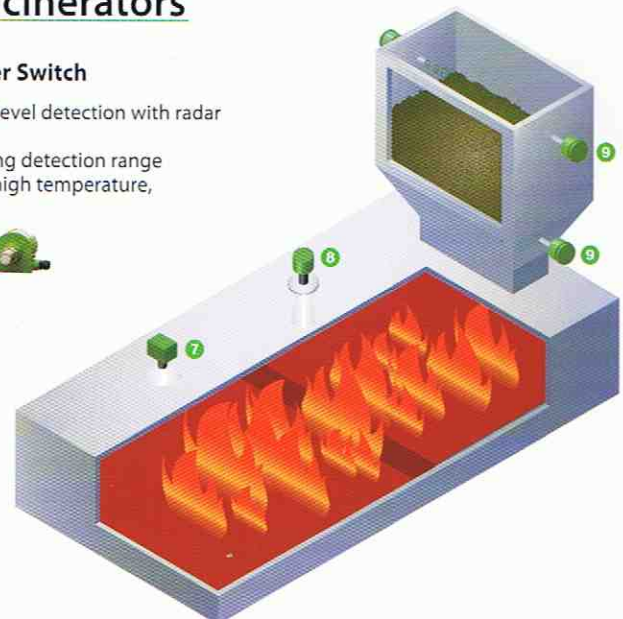
9 Microwave Barrier Switch

- Non-contact point level detection with radar technology
- Maximum 100m long detection range
- No influence from high temperature, pressure, etc.



8 Pulse Radar Type Microwave Level Meter

- 5.8GHz radar technology
- Optimized for short range up to 35m
- 4-wire, RS485 communication



MATSUSHIMA Bulk Handling Solutions

Level, Flow and Automation

Bulk Material Level Measurement

Sounding V
at storage silo



Ultrasonic transmitter
for stacker-reclaimer



Pulse radar level meter
at chemical powder silo



Measurement on Powder Handling Process

Dust Monitor (compact type)
at bag filter outlet



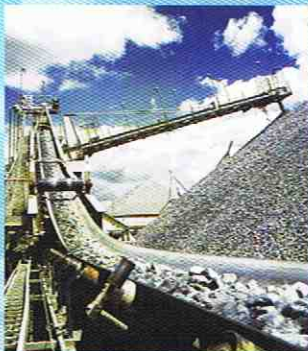
Microwave Barrier Switch
for lower limit detection at dust hopper



Microwave Flow Switch
for screw feeder



Belt Conveyor Protection & Automation



Pull Cord Switch



Speed Relay



Belt Sway Switch



Conveyor Starting Indicator



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