MICROWAVE FLOW SWITCH

High performance in flow powder detection

Microwave Flow Switch, applying the principle of Doppler Effect, is a flow detection sensor for bulk solid/powder. Very helpful for monitoring shutoff of facility, clogging of feeding line etc.

Features

- Hardly influenced by adhesion or dust because of microwave system.
- Self-diagnosis function automatically detecting functional depression.
- Withstanding pressure ability up to ±980kPa internal-pressure in pipe.
- The operational indication can be checked at a view without opening cover.
- Free voltage (AC90 - 230V) strong against power fluctuation and disturbance noise.
- Easily detachable without disconnecting.

* Each volume increases in the CW direction.
### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>MWFS-SW-02C</th>
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</thead>
<tbody>
<tr>
<td>Power source</td>
<td>AC90~230V, 50/60Hz</td>
</tr>
<tr>
<td>Detecting principle</td>
<td>Flow detection by microwave system applying Doppler Effect</td>
</tr>
<tr>
<td>Detecting Range</td>
<td>Max. 1.5m (depends on size, speed, and reflectivity of target object)</td>
</tr>
<tr>
<td>Frequency</td>
<td>24GHz band</td>
</tr>
<tr>
<td>Oscillation power</td>
<td>7mW</td>
</tr>
<tr>
<td>Output (for control)</td>
<td>1C Output AC250V 3A</td>
</tr>
<tr>
<td>Detection</td>
<td>ON at solid flow detection ON DELAY, OFF after the setting time OFF DELAY, OFF after the setting time</td>
</tr>
</tbody>
</table>

#### Fault alarm

- **(Self-diagnosis)** Diagnoses and outputs drop of the transmitted microwave.
- **(Actuation)** AT power off, the contact will be reset.

#### Timer

- 0.1~10 sec. (Adjustable) (both ON DELAY and OFF DELAY)

#### Power consumption

- Max. 5.5W

#### Allowable temp.

- -10°C~+55°C

#### Allowable pressure

- -980kPa~+980kPa

#### Mounting

- G1 screw (incl. lock-nut and packing)

#### Protection

- IP65

#### Coating color

- Munsell 7.5GY6/10

#### Mass

- Approx. 2.0kg

### Dimension and Terminal Connection

#### Operation of Relay

- **Condition of measurement**
  - Power OFF and NO-detection
    - Flow
  - Detection
    - Flow
- **Failure**
  - Failure (when the micro wave is not transmitted)

#### Terminal connection

- **Switching status**
  - Output Fault alarm
  - AC AC COM NO NC COM NC NC

#### Monitoring of pneumatic feeding line

#### Monitoring of discharge from silo

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