







# MICROWAVE FLOW SWITCH

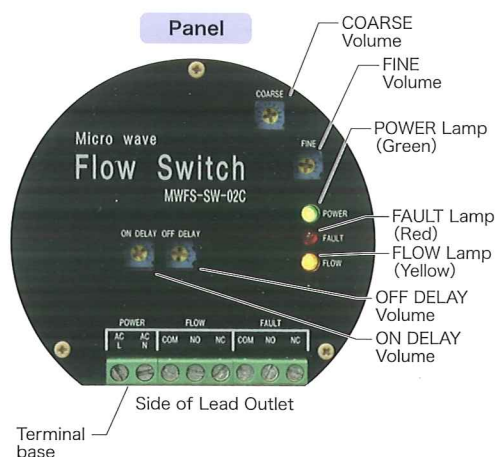
*High performance  
in flow powder  
detection*



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  $\pm 980\text{kPa}$  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**

Model	MWFS-SW-02C	Fault alarm (self-diagnosis)	1C Output AC250V 3A (Actuation) Diagnoses and outputs drop of the transmitted microwave. ※At power off, the contact will be reset.
Power source	AC90~230V, 50/60Hz	Timer	0.1~10sec. (Adjustable) (both ON DELAY and OFF DELAY)
Detecting principle	Flow detection by microwave system applying Doppler Effect	Power consumption	Max. 5.5W
Detecting Range	Max. 1.5m (depends on size, speed, and reflectivity of target object)	Allowable temp	-10~+55°C
Frequency	24GHz band	Allowable pressure	-980kPa~+980kPa
Oscillation power	7mW	Mounting	G1 screw (incl. lock-nut and packing)
Output (for control)	1C Output AC250V 3A (Actuation) Detection: ON at solid flow detection ON DELAY: ON after the setting time OFF DELAY: OFF after the setting time	Protection	IP65
		Coating color	Munsell 7.5GY6/10
		Mass	Approx 2.0kg

**Dimension and Terminal connection**

**Operation of Relay**

Condition of measurement	Switching status	
	Output	Fault alarm
Power OFF and NO-detection. (Flow)	COM NO NC	COM NO NC
Detection. (Flow)	COM NO NC	COM NO NC
Failure (Failure: When the micro wave is not transmitted)	COM NO NC	COM NO NC

**Terminal connection**

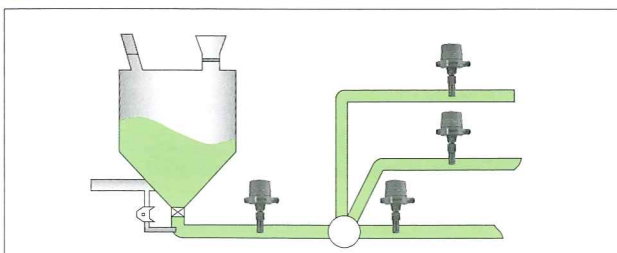
Power AC90~230V 50/60Hz

AC AC COM NO NC COM NO NC

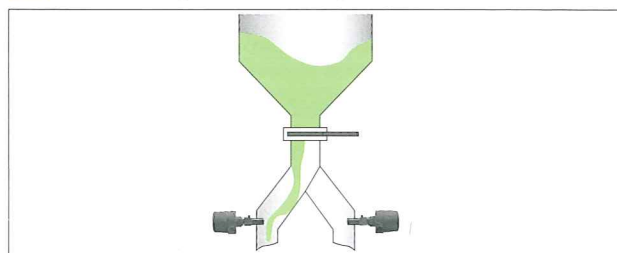
output Fault alarm

※1 : Please apply a liquefied gasket to a screw part or a crevice, when attaching.  
 ※2 : Please tighten the Bolt and Nut when you install it.  
 ※3 : Please be sure to connect earth terminal.

**Monitoring of pneumatic feeding line**



**Monitoring of discharge from silo**



**Caution**

- Read the instructions to ensure correct and suitable application of products.
- Contact our nearest sales office when using our products for any systems used in situations which may be life threatening.

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