DYNAguard M-series

Compact . Reliable . Economical

Flow Indicator for Solids

System Description

The microwave-indicator DYNAguard M is used for monitoring the mass flow in open and closed transport processes.

Independent of particle moving direction solid materials with velocity of at least 0.1 m/s in the detection field will be discerned.

Flow problems with transports or the feeding of powders, pellets or granules can be detected early with this device. This helps to prevent serious difficulties that can occur due to clogged piping, material loss or other technical problems with the system.

The DYNAguard M has to be installed with an angle of 45° up to 90° of flow direction. Moving mechanical parts e.g. rotary valves, propellers or similar should not be in the detection field, because this might be detected as flow of material.

If these parts are not avoidable, they have to be shielded...

Technical Data

material	housing	stainl. steel 1.4305 (AISI 303)
	window (standard)	PTFE
	sealing (standard)	NBR
ambient cond.	temperature	-20°C+70°C (-4°F158°F)
	degree of protection	IP 65 (EN 60529)
	EMC	according to EN 61326-1
process cond.	temperature	-2090°C (-4194°F)
	pressure	max. 2 bar (29 lbs)
relay	switching voltage	max. 110 VDC / 125 VAC
		min. 10 mVDC
	switching current	max.1A, 30VDC / 0,5A,125VAC
		min. 10µA
	switching power	30 W / 62,5 VA
microwave	transmitting power	5 mW at 25°C,
	frequency	24 GH
supply	voltage	1836 VDC, 1628 VAC
	current consumption	approx.80 mA at 24 VDC
adjustment	sensitivity	relative
	damping	022 sec.
	hysteresis	030 %

-Microwave technique -Relay output



solids move through this field, the microwaves are reflected and received by the sensor again. The electronics unit converts this into a switching operation.

VA Instruments

Instrumentation for Powder and Bulk Industries

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Data Sheet



technical data subject to change without notice



Contact your national or area sales and service office