FlowSWITCH 500M

Solid monitoring

Application

The indicator FlowSWITCH 500M **monitors** the mass flow of **solids.** Flow problems with transports or the feeding of **powders, dust, pellets**, or **granulates** can be detected early with this device. This helps prevent serious difficulties that can occur due to clogged piping, material loss, or other technical problems with the system.

Main Benefits

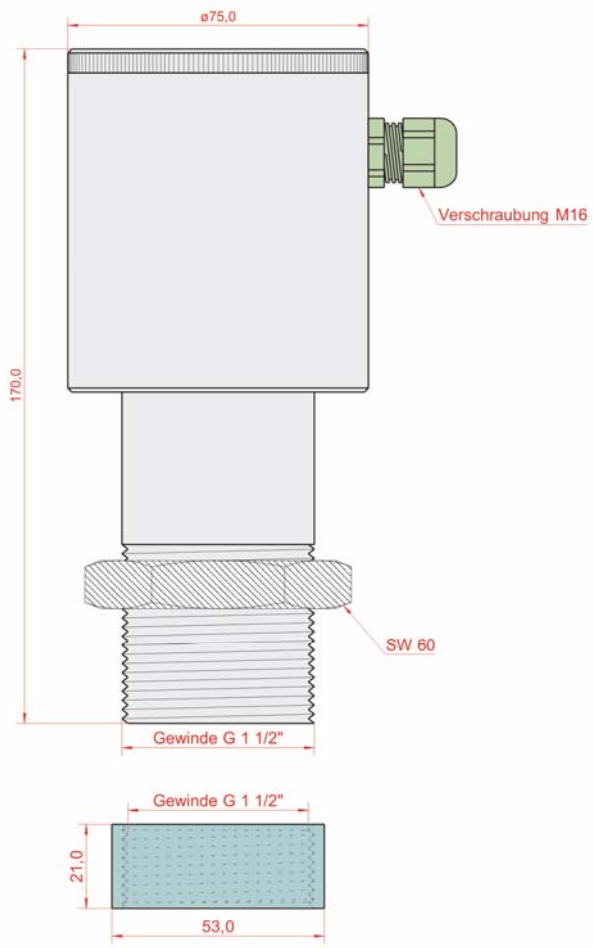
- Reliable microwave measuring principle
- For all bulk materials
- Monitors the mass flow in solid material handling
- Adjustable sensitivity and damping
- Easy installation by compact form
- Process connection with flange, thread or others

Scope of use

animal feed industry
building materials industry
production of ceramics
chemical industry
detergent industry
food industry
glass production
metal production
pharmaceuticals
pigment production
power plants
production of rubber goods
recycling industry
synthetic materials
production of textiles
etc.

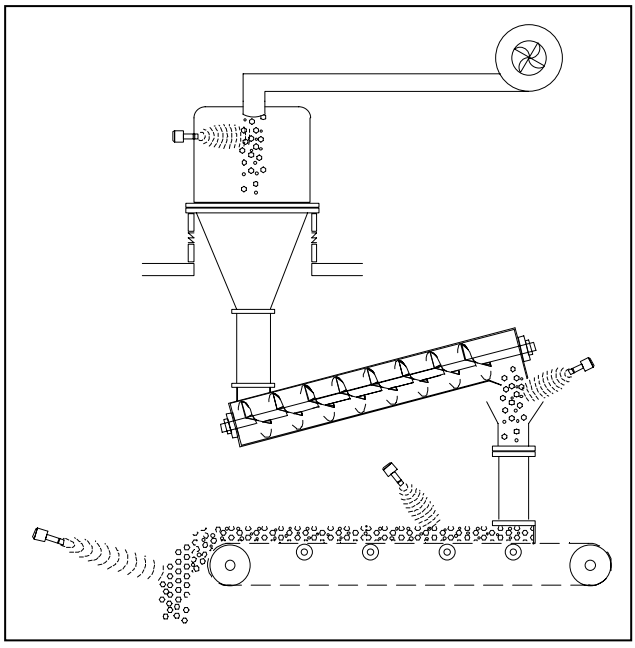
Function

The measurement procedure of the FlowSwitch 500M is based on the physical principle of the Doppler effect. Therefore the sensor sends out a microwave field. If solids move through this field, the microwaves are reflected and received by the sensor again. This is converted into a switching process.
The sensitiveness of the sensor can be adjusted continuously and enables a variable determination of the switching point resp. a switching process for different mass flows.
The installation can be carried out within pipes, on conveying belts, on fall plates or at similar transport facilities. The assembly is simply, economical and easy also afterwards possible.



Technical Data

Housing material:	stainl. steel
sensor surface:	plastic (optional ceramic)
Protection class:	IP65
Temperature ambient:	-20° to +70°C
Temperature process:	-20° to +90°C
Process pressure:	2 bar (optional 25 bar)
Power supply:	18-36 VDC / 16-28 VAC
Current consumption:	about 80 mA at 24 V DC
Transmitting power:	<20 dBm
Output (switching):	Relay output (change-over contact, pot. free)
Switching voltage:	110 VDC / 125 VAC
Switching current:	1 A, 30 VDC; 0,5 A, 125 VAC
Switching power:	30 W / 62,5 VA / 125 VAC
Electr. connection:	Screw terminals (behind a screw cap with PG gland)
Adjustable parameters:	Sensibility, signal damping Hysterese
Parametrization:	via potentionmeter and switch
Indicators:	LED green (working) LED red (switch) LED yellow (flow indicator)



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