

LevelCheck 510M

Contactless level monitoring for bulk material



Application

The microwave barrier LevelCheck 510M is designed for level monitoring of solids in silos, container, bunkers, shafts, etc.

Furthermore it can be used for: blockage-report, for counting piece goods or for positioning items. The devices are certified up to ATEX Zone 20 and optionally authorized for a process pressure up to 25 bar.

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.

HUMY 3000 Moisture measurement MF 3000 Mass flow measurement FS 510M Microwave mass flow monitoring **FS 600E** Electrostatic mass flow monitoring **FS 700E** Triboelectric dust monitoring LC 510M Limit level monitoring



Main Benefits

- Reliable microwave measuring principle
- Self-monitoring with additional relay
- For level monitoring
- Adjustable sensitivity, damping, hysteresis and filter function
- Adjustment via 2 key buttons and bargraph
- Easy installation by compact form
- Process connection with flange, thread, etc.

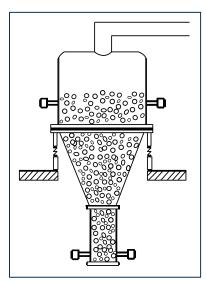
Function

The measurement procedure of the LevelCheck 510M is based on the newest microwave technology. Therefore the sensor sends out a microwave signal. The signal is analyzed by the opposite receiver. Material, which has built up within this field, put a damp on the signal effect. This is con-verted into a switching process. The measurement is contactless.

Sensitivity, signal damping and hysteresis of the microwave barrier can be adjusted continuously and exactly by use of the bargraph. This enables a variable determination of the switching point resp. a switching process for different process applications.

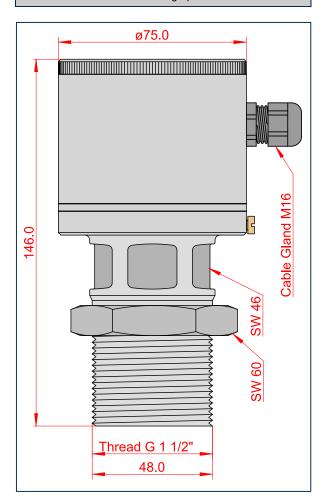
The installation can be carried out within silos, bunkers, pipe systems or at similar transport facilities.

The assembly is simple, economical and easy possible also afterwards.



Technical Data

Housing material	Stainless steel
Sensor surface	Teflon (optional ceramic)
Protection class	IP65
Ambient temperature	-20°C till +60°C
Process temperature	-20°C till +80°C
Process pressure	2 bar (optional 25 bar)
Power supply	18-30 VDC (typical 24 VDC)
Current consumption	Ca. 80 mA at 24 VDC
Transmitting power	10 dBm
Output (switching)	2x Relay output (change-over contact, potfree) optional transistor
Switching voltage	45 VDC / 35 VAC
Switching current	Min. 10 µA & max. 1 A
Switching power	30W / 35 VA
Electr. connection	Screw terminals (behind a screw cap with cable gland)
Adjustable parameters	Sensibility, filter time, hysteresis
Parameterization	via key buttons and switch
Indicators	LED green (power supply) LED orange (switch) Bargraph



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