

Level detection of bulk solids

Microwave barrier

Data Sheet

System description

The measurement system Point-GuardL is a microwave barrier and consist of a transmitter and a receiver unit. It is used for level monitoring or level detection of bulk material e.g. in silos, pipelines, chutes, containers, feeding- / receiving vessels and hoppers.

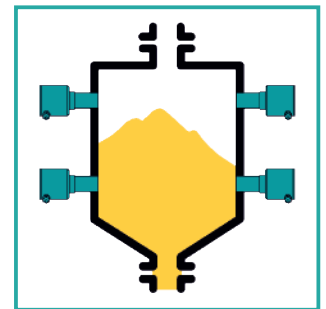
Based on the latest microwave technology, the transmitter unit sends out microwaves which are evaluated by the receiver unit. Bulk material that is conveyed e.g. into a hopper is piling up slowly between transmitter and receiver and attenuates the signal. This initiates an individually adjustable switching operation which indicates that a certain level in the hopper is reached. Conversely the system can be used for minimum level detection also when silos are emptied.

The DYNAguard L can also measure through electrical insulators. In case of special process conditions (temperature, pressure, specific products) this allows also to disconnect the system from the vessel to be monitored.



Technical Data:

Material of housing:	Stainless steel
Sensor surface:	Plastic [optionally ceramic for abrasive substances]
International Protection Rating:	IP65
Weight	2.6 kg
Measuring System:	
Storage temperature:	-20 °C bis 60 °C [non-condensing]
Operating temperature:	-20 °C bis 60 °C [non-condensing]
Process temperature:	-20 °C bis 85 °C
Process pressure:	Max. 2 bar [optionally 25 bar with ceramic sensor surface]
Operating voltage:	24 VDC [18 VDC ... 30 VDC]
Current drain	Max. 80 mA
Transmitter/Receiver:	
Power:	< 2 W
Transmit frequency:	24.000 Ghz ... 24.250 GHz
Transmit power:	10 dBm
Measuring range	15 cm bis 25 m
Hysteresis:	Adjustable
Switching delay:	Adjustable [50 ms to 50 s]
Relay output:	SPST or SPDT, floating
Switching voltage:	35 VAC resp. 45 VDC
Switching current:	Min. 10 µA & max. 1 A
Switching power:	35 VA resp. 30 W
Cable gland:	M16
Connection:	Pluggable screw connectors



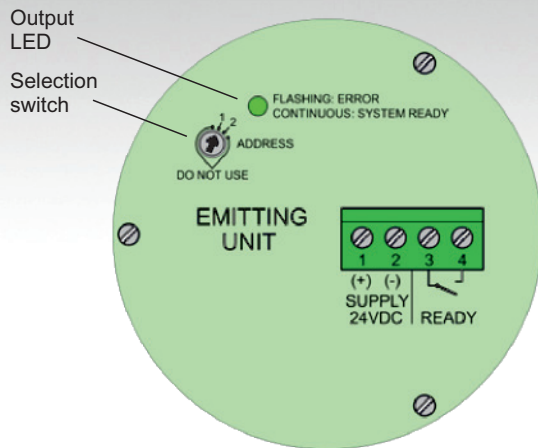
- Reliable level detection
- Contactless measurement
- Wide detection area
- Adjustable individually with LED display
- Easy installation also at GRP containers

Point-Guard L

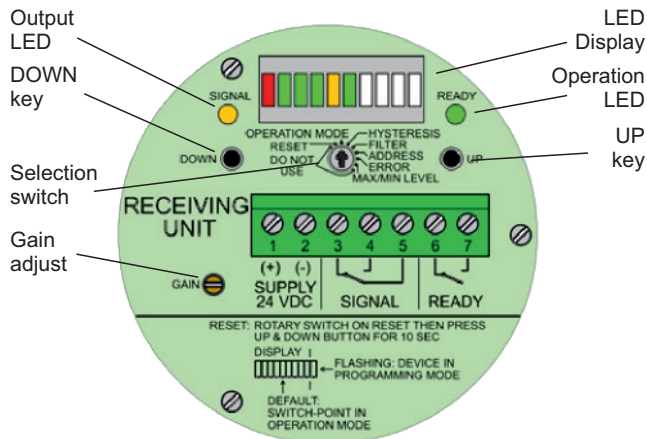
Data Sheet

Cost-efficient Compact Reliable

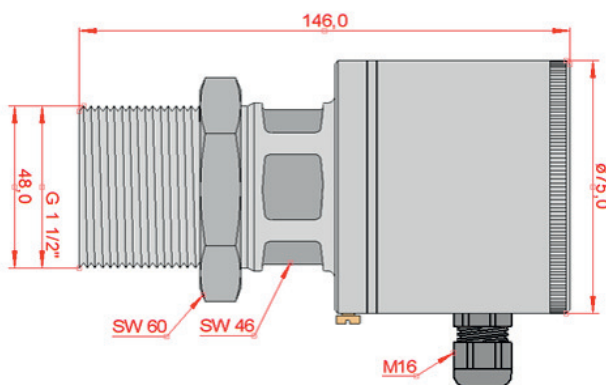
Display and control elements transmitter



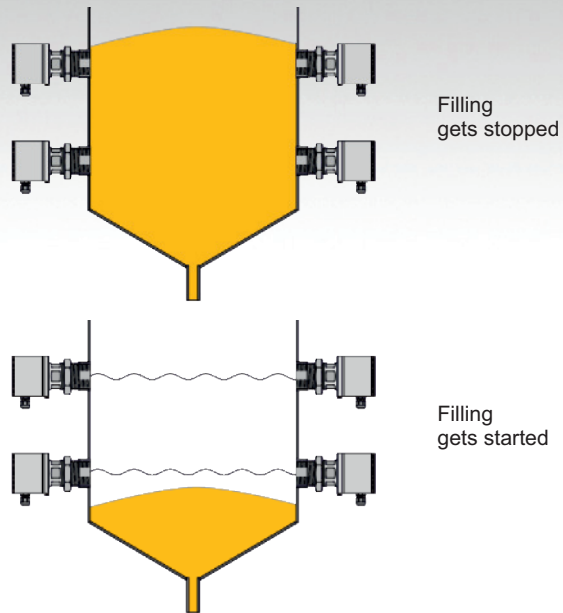
Display and control elements receiver



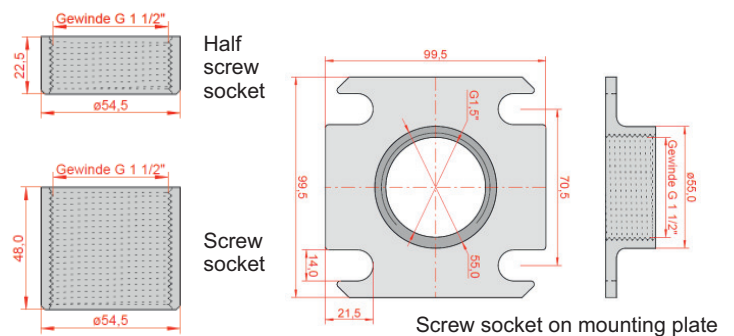
Dimensions in mm



Application



Mounting



Ordering key

Point-Guard A/B/C/D/E

- A: Outputs**
L01: Relay output
- B: Size**
G1,5: G 1 1/2" thread
- C: Housing material**
10: Stainless steel 1.4305 (AISI 303)
- D: Sensor surface material**
20: PTFE
40: Ceramic
- E: Pressure**
02: 2 bar
25: 25 bar



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