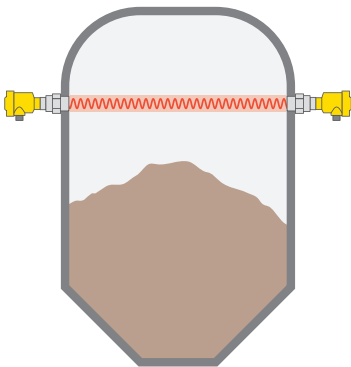


Point level detection | Radar



Point level detection with microwave barrier

The microwave barrier functions like a light barrier: when the medium gets in the way of the microwave beam between the transmitter and the receiver, the signal is attenuated. This change is detected by the receiver and converted into a switching signal.

The microwave barrier is ideal for point level detection of liquids and bulk solids. Another area of application is backup detection on conveyor belts.

The advantages

- ✓ Point level detection of high-purity fluids right through the vessel wall, no openings required
- ✓ Microwave barrier is never in contact with the medium, sensor cannot get soiled
- ✓ Wear and maintenance free operation over long periods

PRO

VEGAMIP T61



PRO

VEGAMIP R61



PRO

VEGAMIP R62



Application	Bulk solids, liquids	Bulk solids, liquids	Bulk solids, liquids in dangerous mounting or hard-to-reach locations
Version	Emitter	Receiver	Receiver with separate version
Measuring range	up to 100 m	up to 100 m	up to 100 m
Antenna	Inside horn antenna with PTFE cover, plastic horn antenna with PP cover	Inside horn antenna with PTFE cover, plastic horn antenna with PP cover	Inside horn antenna with PTFE cover, plastic horn antenna with PP cover
Process fitting	Thread G1½, 1½ NPT, flanges, clamp, mounting strap	Thread G1½, 1½ NPT, flanges, clamp, mounting strap	Thread G1½, 1½ NPT, flanges, clamp, mounting strap
Process temperature	-40 ... +80 °C +450 °C with mounting adapter	-40 ... +80 °C +450 °C with mounting adapter	-40 ... +80 °C +450 °C with mounting adapter
Process pressure	-1 ... +4 bar (-100 ... +400 kPa)	-1 ... +4 bar (-100 ... +400 kPa)	-1 ... +4 bar (-100 ... +400 kPa)
Frequency range	K-band (24 GHz)	K-band (24 GHz)	K-band (24 GHz)
Signal output	-	Relay, transistor	Relay, transistor
Display	-	Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED) or pluggable display module PLICSLED
Approvals	ATEX, UKEX, IECEx, NEPSI, FM, CSA, EAC (GOST), UKR Sepro	ATEX, UKEX, IECEx, NEPSI, FM, CSA, EAC (GOST), UKR Sepro	ATEX, UKEX, IECEx, NEPSI, CSA, EAC (GOST)
Benefit	✓ Simple installation and mounting, as emitter requires no parameterization	✓ Compact instrument saves time and money when installing and connecting, as no separate controller is required	✓ Separate instrument version allows installation in hard-to-reach or dangerous locations