



Water inlet at the reservoir

- Reliable
- Reliable level switch protects the tunnel system from rocks and sand
- Cost effective
- Flushing only on demand
- User friendly
- Automatic operation

Level measurement and point level detection of stones and sand in the water basin

If the natural flow of water into a reservoir is not sufficient for optimal energy production, additional water is fed into the reservoir via ducts or tunnels from water catchments that can be up to several kilometres distant. Coarse debris is held back by massive grids at the main water inlet. Smaller stones, grit and sand can accumulate in the transfer basin in front of the tunnel. Constant monitoring of the level of stones and sand in the basin ensures that no debris gets into the tunnel system.



VEGAPULS C 21

Level measurement with radar in the water basin

- Exact measuring results unaffected by ambient conditions
- Maintenance-free operation with non-contact 80 GHz radar technology
- Highly resistant materials ensure a long service life



VEGAVIB 62

Point level detection with vibrating level switch for on-demand cleaning of the basin of stones and sand

- Reliable level measurement, unaffected by debris
- Robust design ensures dependable function
- Maintenance-free operation reduces maintenance costs



VEGAPULS C 21	VEGAVIB 62
Measuring range - Distance 15 m	Process temperature -40 ... 150 °C
Process temperature -40 ... 80 °C	Process pressure -1 ... 6 bar
Process pressure -1 ... 3 bar	Version Detection of solids in water Suspension cable
Accuracy ± 2 mm	Materials, wetted parts 316L FEP PUR
Frequency 80 GHz	Threaded connection ≥ G1, ≥ 1 NPT
Beam angle 8°	Flange connection ≥ DN 32, ≥ 1½"
Materials, wetted parts PVDF	Seal material CR, CSM
Threaded connection G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1	Housing material Plastic Aluminium Stainless steel (precision casting) Stainless steel (electropolished)
Seal material FKM	Protection rating IP66/IP68 (0,2 bar) IP66/IP67 IP66/IP68 (1 bar)
Protection rating IP66/IP68 (3 bar), Type 6P	Output Relay (DPDT) Contactless electronic switch Transistor (NPN/PNP) Two-wire NAMUR