VEGAWAVE S 61

Vibrating level switch for powders

- Easy setup without adjustment
- Product-independent switching point
- Rugged construction
- Insensitive to buildup
- Wear and maintenance free

Function

The vibrating fork of VEGAWAVE is energized by a piezo crystal and it vibrates at a fixed amplitude. If the vibrating rod is covered by product, the amplitude change is detected by the integral electronics and converted into a switch signal. The switching condition is visible from outside via a two-color LED. No special adjustments are required to set up VEGAWAVE S 61.

Area of application

VEGAWAVE S 61 is used as a level switch in free flowing powders and fine-grained solids and detects reliably and accurately when a point level is reached. The rugged design is ideal for coarse products and can be used under heavier loading conditions than a vibrating rod device. E.g. Grain, fine aggregates and even heavy powders, such as cement.

Technical data

Process pressure	-1 … 25 bar
Process temperature	-50 … +150 °C
Density	≥ 100 g/l
Material housing	plastic PBT
Protection	IP 66/IP 67
Materials, wetted parts	316L
Approval	option: Dust ATEX II 1/3 D IP6X T
Electronics transistor (NPN/PNP)	
Load current	max. 400 mA
Turn-on voltage	max. 55 V DC
Supply voltage	10 … 55 V DC
Power consumption	max. 0.5 W
Electronics double relay (DPDT)	
Supply voltage	20 … 253 V AC, 50/60 Hz, 20 … 72 V DC
Power consumption	1 … 8 VA (AC), approx. 1.3 W (DC)
Turn-on voltage	min. 10 mV / max. 253 V AC/DC
Switching current	min. 10 µA / max. 3 A AC, 1 A DC
Breaking capacity	max. 750 VA, 54 W

Accessories: Sliding lock fitting (extended versions) pressurised or unpressurised for adjustable switch point