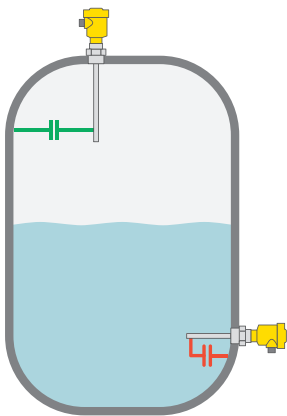


Point level | Capacitive



Point level detection with capacitive level switches

In capacitive point level detection, the sensor and vessel form the two electrodes of a capacitor. Any capacitance change caused by a level change is converted into a switching signal. Thanks to the shortenable cable and rod versions, level switches can be perfectly adapted to any application. They are often used for overfill or dry run protection as well as oil/water or foam detection.

The advantages

- ✓ The level switch can be installed in any position
- ✓ Fully insulated versions also measure aggressive liquids
- ✓ Low-cost point level detection for maintenance-free operation

BASIC

VEGAPOINT 11



BASIC

VEGAPOINT 21/31



Application	Water-based liquids	VEGAPOINT 21: liquids VEGAPOINT 31: bulk solids
Version	Compact version of 316L, PEEK	Compact version of 316L, PEEK
Process fitting	Threads from G½, ½ NPT, universal connector for hygiene adapter	Threads from G½, ½ NPT, universal connector for hygiene adapter
Process temperature	-20 °C ... +100 °C/ 1 h @ +135 °C	-40 °C ... +115 °C/ 1 h @ +135 °C
Process pressure	-1 ... +25 bar (-100 ... +2500 kPa)	-1 ... +64 bar (-100 ... +6400 kPa)
Signal output	Three-wire: IO-Link, transistor (PNP/NPN)	Three-wire: IO-Link, transistor (PNP/NPN)
Display/adjustment	LED	Full-colour multidirectional (360°) switching status indication, Bluetooth
Approvals	CE 1935/2004, FDA, ADI	ATEX, UKEX, IECEx, CE 1935/2004, FDA, 3-A, EHEDG, ASME BPE, USP Class VI, ADI, China FDA, WHG, VLAREM, SVTI, Ship
Benefit	✓ Adjustment-free for easy setup	✓ Highly visible, adjustable full-colour multidirectional (360°) switching status display

Point level | Capacitive

BASIC

VEGAPOINT 23



BASIC

VEGAPOINT 24



Application	Liquids and bulk solids	Adhesive media or front flush mounting
Version	Compact version of 316L, PEEK with tube extension up to 1 m	Compact version of 316L, PEEK
Process fitting	Thread from G½, ½ NPT, universal connector for hygiene adapter	Thread from G½, ½ NPT, universal connector for hygiene adapter
Process temperature	Tube extension ≤ 250 mm: -40 °C ... +115 °C/1 h @ +135 °C Tube extension > 250 mm: -40 °C ... +80 °C/1 h @ +135 °C	-40 °C ... +115 °C/1 h @ +135 °C
Process pressure	-1 ... +64 bar (-100 ... +6400 kPa)	-1 ... +64 bar (-100 ... +6400 kPa)
Signal output	Three-wire: IO-Link, transistor (PNP/NPN)	Three-wire: IO-Link, transistor (PNP/NPN)
Display/adjustment	Full-colour multidirectional (360°) switching status indication, Bluetooth	Full-colour multidirectional (360°) switching status indication, Bluetooth
Approvals	ATEX, UKEX, IECEx, CE 1935/2004, FDA, 3-A, EHEDG, ASME BPE, USP Class VI, ADI, China FDA, WHG, VLAREM, SVTI, Ship	ATEX, UKEX, CE 1935/2004, FDA, 3-A, EHEDG, USP Class VI, ADI, China FDA, WHG, VLAREM, SVTI
Benefit	✓ Low-cost level switch with selectable switching point position/tube extension	✓ Optimised for adhesive media via front-flush installation

PRO

VEGACAP 62

PRO

VEGACAP 63

PRO

VEGACAP 64

Application	Liquids and bulk solids	Liquids and bulk solids, not abrasive	Adhesive liquids and light-weight bulk solids, not abrasive
Version	Partly insulated rod of steel, 316L, PTFE up to 6 m	Fully insulated rod of steel, 316L, PE, PTFE, Alloy up to 6 m	Fully insulated rod of steel, 316L, PTFE, Alloy up to 4 m
Process fitting	Thread from G½, ½ NPT, flanges from DN 25, 1"	Thread from G½, ½ NPT, flanges from DN 25, 1"	Thread from G¾, ¾ NPT, flanges from DN 25, 1"
Process temperature	-50 ... +200 °C	-50 ... +200 °C	-50 ... +200 °C
Process pressure	-1 ... +64 bar (-100 ... +6400 kPa)	-1 ... +64 bar (-100 ... +6400 kPa)	-1 ... +64 bar (-100 ... +6400 kPa)
Signal output	Relay, transistor, two-wire output, contactless electronic switch	Relay, transistor, two-wire output, contactless electronic switch	Relay, transistor, two-wire output, contactless electronic switch
Display/adjustment	Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED) or pluggable display module PLICSLED
Approvals	ATEX, UKEX, IECEx, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2, NEPSI	ATEX, UKEX, IECEx, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2, NEPSI	ATEX, UKEX, IECEx, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2, NEPSI
Benefit	✓ Rugged, resistant designs		

Point level | Capacitive

	PRO	PRO	PRO
	VEGACAP 65	VEGACAP 66	VEGACAP 67
			
Application	Liquids and bulk solids	Liquids and bulk solids, not abrasive	Bulk solids with high process temperatures
Version	Partly insulated steel cable, 316L, PTFE, PE up to 32 m	Fully insulated steel cable, 316L, PTFE up to 32 m	Partly insulated steel rod or cable, 316L, ceramic up to 6 m (rod) up to 40 m (cable)
Process fitting	Thread from G1, 1 NPT, flanges from DN 50, 2"	Thread from G1, 1 NPT, flanges from DN 50, 2"	Thread from G1½, 1½ NPT, flanges from DN 50, 2"
Process temperature	-50 ... +200 °C	-50 ... +150 °C	-50 ... +400 °C
Process pressure	-1 ... +64 bar (-100 ... +6400 kPa)	-1 ... +40 bar (-100 ... +4000 kPa)	-1 ... +16 bar (-100 ... +1600 kPa)
Signal output	Relay, transistor, two-wire output, contactless electronic switch	Relay, transistor, two-wire output, contactless electronic switch	Relay, transistor, two-wire output, contactless electronic switch
Display/adjustment	Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED) or pluggable display module PLICSLED
Approvals	ATEX, UKEX, IECEx, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2, NEPSI	ATEX, UKEX, IECEx, FM, CSA, EAC (GOST), UKR Sepro, Overfill protection, Ship, SIL2, NEPSI	–
Benefit	✓ Rugged, resistant designs with capability to ignore buildup on sensor		✓ Universal use in bulk solids thanks to wide temperature range

PRO	PRO	PRO	PRO
VEGACAP 69	VEGACAP 27	VEGACAP 35	VEGACAP 98
			
Liquids, also in non-conductive vessels	Adhesive, conductive liquids	Bulk solids	Liquids, bulk solids
Fully insulated double rod of PTFE, PP, FEP up to 4 m	Fully insulated rod of steel, 316Ti, PTFE, PFA up to 4 m	Insulated cable of steel, 316Ti, PE, PA12 up to 20 m	Fully insulated rod of PP up to 2 m
Flanges from DN 50, 2"	Thread from G1, 1 NPT, Clamp 1½"	Thread from G1½, 1½ NPT	Thread from G1½
-50 ... +100 °C	-50 ... +200 °C	-40 ... +80 °C	-40 ... +80 °C
-1 ... +2 bar (-100 ... +200 kPa)	-1 ... +63 bar (-100 ... +6300 kPa)	-1 ... +16 bar (-100 ... +1600 kPa)	Unpressurized operation
Relay, transistor, two-wire output, contactless electronic switch	Relay output	Relay output	Relay output
Control lamp (LED) or pluggable display module PLICSLED	Control lamp (LED)	Control lamp (LED)	Control lamp (LED)
ATEX, UKEX, EAC (GOST), UKR Sepro	Overfill protection	Overfill protection	Overfill protection
✓ Simple, fast installation thanks to compact, double rod design	✓ Minimal time and cost expenditure thanks to simple setup without medium		