

Point level | Conductive



Point level detection with conductive point level switches

When the electrodes of the conductive point level sensor come into contact with a conductive fluid, a small alternating current begins to flow.

The electronics then triggers a switching command. Conductive point level sensors are used in all areas of industrial instrumentation, e.g. as overflow protection, pump control or dry run protection.

The advantages

- ✓ Simple, robust and low-cost point level detection
- ✓ Installation of point level sensors possible in any position
- ✓ Detection of multiple switching points within a vessel

PRO

VEGAKON 61



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Application	Conductive liquids
Version	Compact level switch with front-flush partly insulated electrode and one switching point
Probe length	-
Material	316L, PTFE
Process fitting	Thread G1, cone DN 25, Varivent
Process temperature	-40 ... +150 °C
Process pressure	-1 ... +25 bar (-100 ... +2500 kPa)
Signal output	Relay, transistor output
Display/adjustment	Control lamp (LED)
Approvals	-
Benefit	✓ Optimal cleanability thanks to front-flush mounting

Application	Conductive liquids
Version	Compact level switch with partly insulated rod electrodes and max. two switching points
Probe length	0.12 ... 4 m
Material	316Ti, PP
Process fitting	Thread G1½
Process temperature	-40 ... +100 °C
Process pressure	-1 ... +6 bar (-100 ... +600 kPa)
Signal output	Relay, transistor output
Display/adjustment	Control lamp (LED)
Approvals	-
Benefit	✓ Simple and versatile with cut to length probes

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	PRO EL 1	PRO EL 3	PRO EL 4
			
Application	Conductive liquids	Conductive liquids	Conductive liquids
Probe length	up to 4 m	up to 6 m	up to 4 m
Version	Partly insulated rod with one switching point	Partly insulated rod with max. four switching points	Partly insulated rod with max. four switching points
Material	316Ti, PTFE	316Ti, PTFE	316Ti, PP
Process fitting	Thread G1/2	Thread G1 1/2	Thread G1 1/2
Process temperature	-50 ... +130 °C	-50 ... +130 °C	-20 ... +100 °C
Process pressure	-1 ... +63 bar (-100 ... +6300 kPa)	-1 ... +63 bar (-100 ... +6300 kPa)	-1 ... +6 bar (-100 ... +600 kPa)
Signal output	VEGATOR 131, VEGATOR 132	VEGATOR 131, VEGATOR 132	VEGATOR 131, VEGATOR 132
Display/adjustment	-	-	-
Approvals	ATEX, UKEX, Overfill protection	ATEX, UKEX, Overfill protection	-
Benefit	✓ Easy installation in confined spaces through small sensor dimensions	✓ Simple and versatile with cut to length probes	

Controllers see page 64 –69

PRO

EL 6



Conductive liquids

up to 50 m

Partly insulated cable with max. four switching points

316Ti, PP/FEP

Thread G1½

-20 ... +100 °C

-1 ... +6 bar
(-100 ... +600 kPa)

VEGATOR 131, VEGATOR 132

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✓ Simple and versatile with cut to length probes

PRO

EL 8



Conductive liquids

up to 3 m

Partly insulated rod with one switching point

316Ti, PE

Thread G½

-10 ... +60 °C

-1 ... +6 bar
(-100 ... +600 kPa)

VEGATOR 131, VEGATOR 132

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✓ Easy installation in confined spaces through small sensor dimensions