

Level measurement



CleverLevel Switch
The clever alternative
to vibrating forks.



CleverLevel LBFS

CleverLevel LFFS

General Data	<ul style="list-style-type: none"> ■ Minimal insertion length ■ Detects all kinds of media (solid, liquid, viscous, pasty) ■ Compact and light weight 	<ul style="list-style-type: none"> ■ Detects all kinds of media (solid, liquid, viscous, pasty) ■ Bright, blue light on top when triggered ■ Visible from long distance
Industries	Food & Beverage Laboratory & Medical Oil & Gas / Chemical Water / Waste Water Energy Transport & Logistics Machinery	Food & Beverage Laboratory & Medical Water / Waste Water
Process conditions	-40 ... +115 °C	-40 ... +115 °C -40 ... +200 °C
Versatile options for process connection	G1/2" G3/4" 3/4" NPT G1" G1/2" B hygienic M18x1 G1/2" for reverse assembly	G1/2" B hygienic 3A DN38 G1/2" sliding connection
Switching points	1	1
Wetted parts material	PEEK AISI 316L (1.4404) or AISI 304 (1.4301)	PEEK
Protection rating	IP67 / IP69K	IP 67
Approvals	ATEX II 1G, Ex ia IIC T5 ATEX II 1D, Ex ta IIIC T100 Da T100°C ATEX II 3G, Ex nA II T5 3-A EHEDG WHG EN50155 (railway) DNV GL Lloyd's register CCS	ATEX II 1G, Ex ia IIC T5 ATEX II 1D, Ex A20 IP67 ATEX II 3G, Ex nA II T5 3-A EHEDG WHG EN50155 (railway) DNV
Additional information	<ul style="list-style-type: none"> ■ M18x1 replaces a capacitive sensor directly ■ G1/2" reverse for inside mounting in a tank ■ Hanging version ■ Adaptors for other hygienic connections available (see accessories) 	<ul style="list-style-type: none"> ■ Available with sliding connection 100 mm and 250 mm for reaching media which is difficult to access or for high temperatures up to 200 °C

Robust and reliable.



LSP051.X



LSP056.X



PSMN submersible



PSSN submersible

	LSP051.X	LSP056.X	PSMN submersible	PSSN submersible
General Data	<ul style="list-style-type: none"> Fast response time < 10 ms Insensitive to foam, bubbles and sticky media Top-, bottom- or side mounting 	<ul style="list-style-type: none"> Fast response time < 10 ms Insensitive to foam, bubbles and sticky media Separate electronics 	<ul style="list-style-type: none"> Excellent long term stability Piezoresistive silicon sensor 	<ul style="list-style-type: none"> High long term stability Abrasive and chemical resistant
Industries	Food & Beverage Laboratory & Medical Water / Waste Water	Food & Beverage, Laboratory & Medical Water / Waste Water	Water / Waste Water	Water / Waste Water
Operating temperature	Sensor -20 ... +140 °C Ambient -20 ... +60 °C	Sensor -20 ... +140 °C Ambient -20 ... +100 °C	-5 ... +80 °C	-5 ... +40 °C
Measuring ranges			0 ... 250 mH ₂ O	0 ... 20 mH ₂ O
Versatile options for process connection	G1" B hygienic	G1" B hygienic		
Media conductivity	min. 50 µS	min. 50 µS		
Technology	Potentiometric	Potentiometric	Piezoresistive silicon	Ceramic thick film
Wetted parts material	PEEK AISI 316L (1.4404)	PEEK AISI 316L (1.4404)	AISI 316L (1.4404) AISI 904L (1.4539) for seawater applications AISI 316L (1.4435) Hastelloy-C PUR or PTFE (Cable) NBR, FKM (sealing)	AISI 316L (1.4404) Ceramic (96 % AL) PUR (Cable) NBR (sealing)
Accuracy (linearity, hysteresis, repeatability)	± 0.5 % FS	± 0.5 % FS	≤ 0.1 % FS (Pnom ≥ 4 mH ₂ O) ≤ 1 % FS ≤ 0.25 % FS	
Output signal	4 ... 20 mA	4 ... 20 mA	4 ... 20 mA 0 ... 10 V	4 ... 20 mA
Cable		Silicone Length up to 5 m	PUR or ETFE with integrated humidity filter up to 250 m length	PUR black with integrated humidity filter up to 25 m length
Protection rating	IP 67	IP 67	IP 68	IP 68
Approvals	3-A	3-A	ATEX II 1G Ex ia IIC T4 / T6 Ga	
Additional information	<ul style="list-style-type: none"> Adaptors for other hygienic connections available (see accessories) 	<ul style="list-style-type: none"> Adaptors for other hygienic connections available (see accessories) 	<ul style="list-style-type: none"> External programming of zero point and span with FlexProgrammer 9701 	

Level control.
Simply done.



LSKx2x



LSKx5x

General Data	<ul style="list-style-type: none"> ■ Top- or side mounted ■ Adjustable rod length ■ Robust stainless steel housing 	<ul style="list-style-type: none"> ■ Multipoint level detection ■ Adjustable rod length ■ Robust stainless steel housing
Industries	Food & Beverage, Laboratory & Medical Water / Waste Water	Food & Beverage Laboratory & Medical Water / Waste Water
Process conditions	-20 ... +140 °C	-20 ... +140 °C
Versatile options for process connection	G1/2" B hygienic	G1" B hygienic
Switching points	1	2 ... 4
Wetted parts material	PEEK PTFE AISI 316L (1.4404)	PEEK PTFE AISI 316L (1.4404)
Protection rating	IP 67	IP 67
Approvals	3-A	3-A
Additional information	<ul style="list-style-type: none"> ■ Adaptors for other hygienic connections available (see accessories) 	<ul style="list-style-type: none"> ■ Adaptors for other hygienic connections available (see accessories)