



In touch with the medium

» **BEDIA Level monitoring sensors**
with approvals of the classification societies

Typ PLCA 50 DC 12/24 V

Typ PLCA 55 DC 5 V



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» General description

Level monitoring sensor with approvals

These sensors monitor the level of aqueous and oily liquids. They are used in:

- » engines
- » utility vehicles
- » ships
- » sets of machines

In engines these sensors monitor the level of:

- » cooling water, oil level and fuel container

These sensors are used reliably for automatic filling and refilling of liquids, such as for supplying engine oil and fuel service tanks. In shipping, they are not only used to monitor engines but also to monitor supply tanks, wastewater tanks and bilges.

Wherever pressure switches or temperature probes are today used as level monitoring elements, this sensor offers the advantage of its indicating a critical condition far sooner:

Temperature probes frequently react too late, because the medium to be monitored is no longer present. The rise in temperature is not passed on to the pick-up sensor. Pressure switches do not indicate low oil until there is a total shortage of oil and thus too late to protect the engine. The level sensor issues a warning when there is still enough medium present.



Probe for aqueous liquids



Probe for oily liquids

BEDIA Level Monitoring Sensors differ from float-type switches through their compact design and their resistance to vibration:

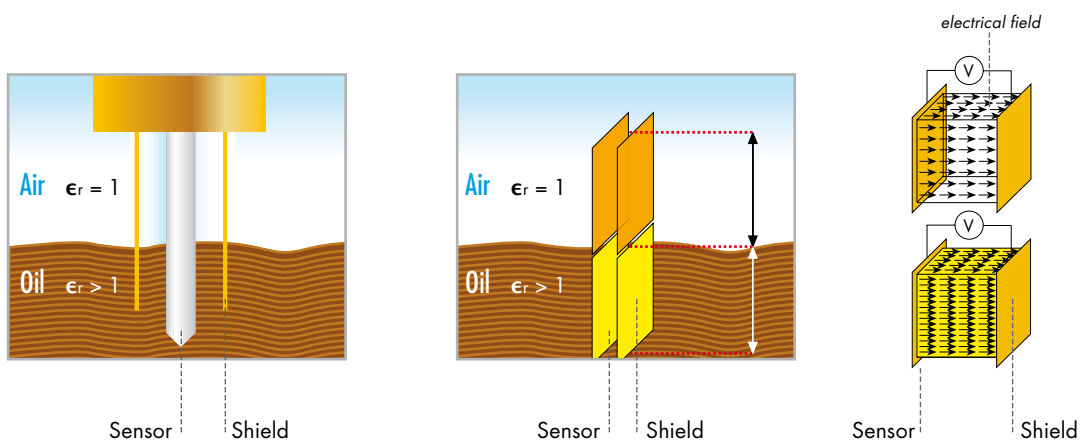
Since they contain no mechanical moving parts, their functioning cannot be influenced either by soil particles or other influences. No current is sent into the medium via an electrode with BEDIA sensors, and so insulation of the probe and electrolysis in the system are not possible.

» Measurable mediums

How the sensor functions

The level sensor functions on the capacitive principle. It detects the change in capacitance that develops when an electrode surrounded by air is immersed in a liquid medium. This change in capacitance on the electrode of the sensor excites an oscillator, causing it to vibrate (at a frequency of approx. 600 kHz). This signal is then processed by digital evaluation electronics.

Capacitance measurement



Medium variants

The level sensors are designed for two different kinds of mediums:

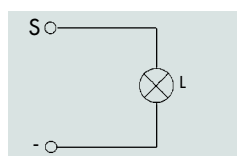
- » **For electrically conductive liquid mediums**
with relative permittivity within a range of $\epsilon_r: 35 \dots 85$
(water, coolant, water-glucose mixture)
- » **And for electrically non-conductive liquid mediums**
with relative permittivity within a range of $\epsilon_r: 1.8 \dots 6$
(engine oil, fuels, hydraulic oil)

» Output

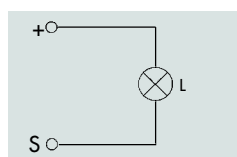
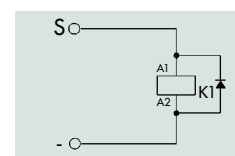
Circuitry output

The probes have a short-circuit-proof switch output:

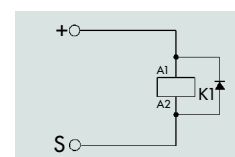
Minus switching: The output transistor switches minus potential to the load.
Plus switching: The output transistor switches plus potential to the load.



Plus switching



Minus switching



With switching currents over 1 A, a relay has to be inserted. To do so, a free-wheeling diode has to be connected parallel to the relay as an overvoltage protective device with inductive loading (see technical specs).

Automatic operational check

The sensors have an approx. two-second operational check built in as standard. When the power supply is applied (such as ignition being switched on), this signal appears for approx. two seconds, thus signalling readiness to function. If this signal does not appear, the sensor should be checked. This self-monitoring makes it possible to check the level monitoring sensors from a central point for their readiness to function as well as for cable breakage. Especially in intricate, rambling systems, such as ships, checking conventional level switches is very difficult.

Further function control times are also available upon request.

Monitoring delay

To avoid indication errors when the surface of the liquid is fluctuating producing brief shortages and excesses in the level, the output signal comes as standard with the indication delayed by approx. seven seconds.

Further indication delay times are available upon request.

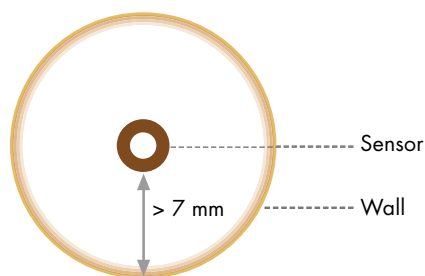
» Installation instruction

Mounting position

BEDIA Level Monitoring Probes may be installed in any attitude.

The level sensors have to be installed in a calmed zone so that the medium does not constantly moisten the level sensor by sloshing and splashing, which would cause error messages. This point is usually applicable for installation in gearboxes or for direct installation in engine oil pans during operation. In such cases, the correct level is only possible during standstills.

When carrying out the installation, be sure that the distance from the sensor probe to the wall is at least 7 mm.



Only for water-sensors

If the sensor is installed from above in a plastic container, error messages might come about under certain circumstances if the medium does not conduct any potential. When installed in all other positions, the casing will come into contact with the medium. This guarantees that potential will be present.

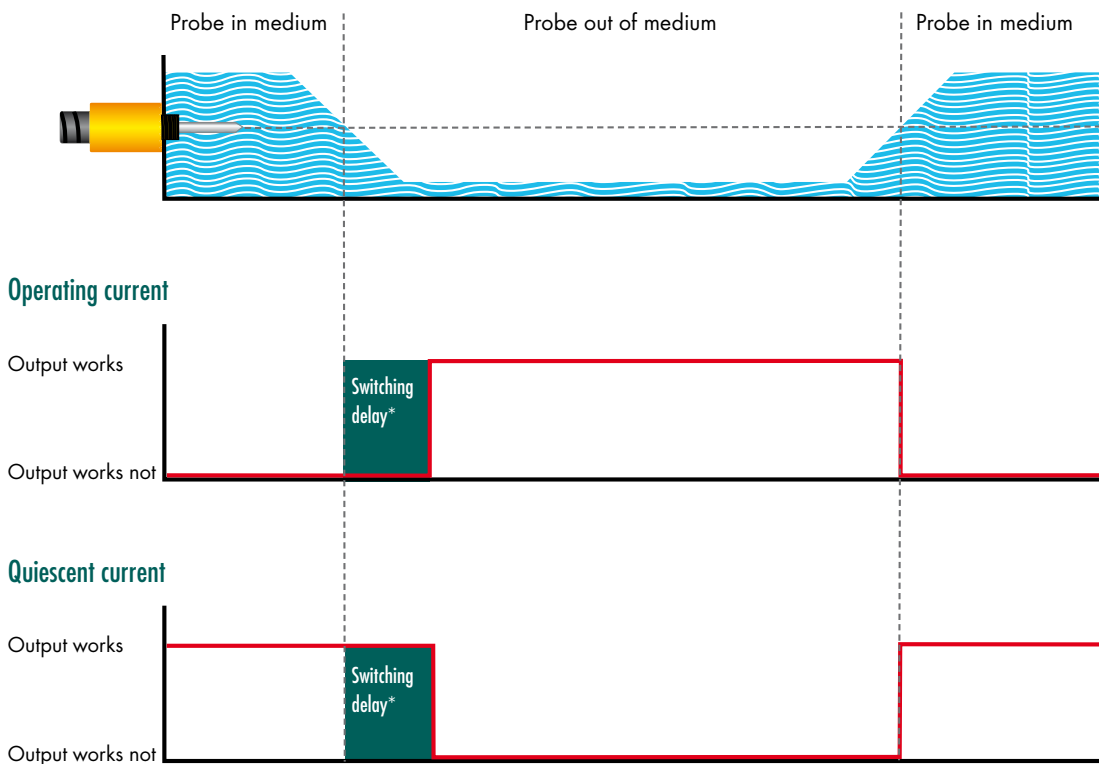
» Functionality overview

Level probes minimum

Minimum probes

If a minimum probe is removed from the medium, its outlet becomes active after the report delay. If it is a working current probe, its outlet becomes low-impedance after the report delay and a signal is available at the outlet. If it is a quiescent current probe, its outlet becomes high-impedance after the report delay and there is no longer a signal available at the outlet.

If a minimum probe is immersed in the medium, its outlet immediately becomes passive. If it is a working current probe, its outlet becomes high-impedance after immersion and a signal is no longer available at the outlet. If it is a quiescent current probe, its outlet becomes low-impedance after immersion and there is a signal available at the outlet.



* If an immediately output switching is needed, it is possible to select a switching delay of 0 sec.

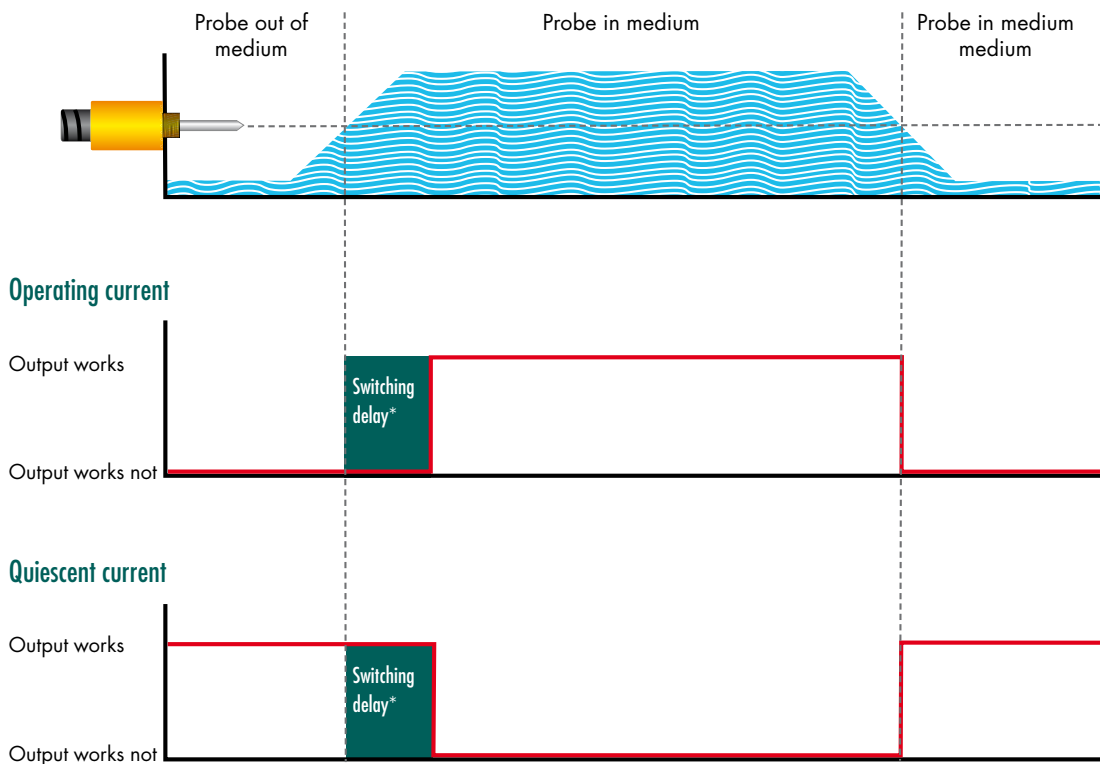
» Functionality overview

Level probes maximum

Maximum probes

If a maximum probe is immersed in the medium, its outlet becomes active after the report delay. If it is a working current probe, its outlet becomes low-impedance after the report delay and a signal is available at the outlet. If it is a quiescent current probe, its outlet becomes high-impedance after the report delay and there is no longer a signal available at the outlet.

If a maximum probe is removed from the medium, its outlet immediately becomes passive. If it is a working current probe, its outlet becomes high-impedance after the removal and there is no longer a signal available at the outlet. If it is a quiescent current probe, its outlet becomes low-impedance after removal and a signal is available at the outlet.



* If an immediately output switching is needed, it is possible to select a switching delay of 0 sec.

» Level probes type PLCA 50

sensor with connector bayonet DIN 72585

Degree of protection IP 69K to DIN 40050

CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societies

Thread	Monitoring display	Integral control function	Monitoring delay	Signal output – potential		Signal output + potential	
				Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.	Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.
Level sensors output OC, operating current							
M 18 x 1,5	MIN	2 sec	7 sec	50 310 211 21	50 320 211 21	50 310 221 21	–
M 18 x 1,5	MIN	2 sec	20 sec	50 310 212 21	50 320 211 24	–	–
M 18 x 1,5	MAX	2 sec	7 sec	–	50 320 212 21	50 310 222 21	50 320 222 21
M 18 x 1,5	MAX	0 sec	7 sec	50 310 212 11	50 320 212 11	–	50 320 222 11
M 18 x 1,5	MAX	0 sec	3 sec	–	–	–	50 320 222 13
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 310 221 11	50 320 221 11
M 14 x 1,5	MIN	1 sec	20 sec	50 310 711 34	–	–	–
M 14 x 1,5	MIN	0 sec	7 sec	–	–	–	50 320 721 11
M 18 x 1,5	MAX	0 sec	0 sec	–	50 320 212 18	–	–
Level sensors output QC, quiescent current							
M 18 x 1,5	MIN	2 sec	7 sec	–	50 320 213 21	–	–
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 102 223 21	–
M 18 x 1,5	MAX	0 sec	7 sec	–	–	–	50 320 224 11
M 18 x 1,5	MAX	2 sec	7 sec	50 310 214 21	50 320 214 21	–	–
M 18 x 1,5	MIN	0 sec	20 sec	–	–	–	50 320 223 14



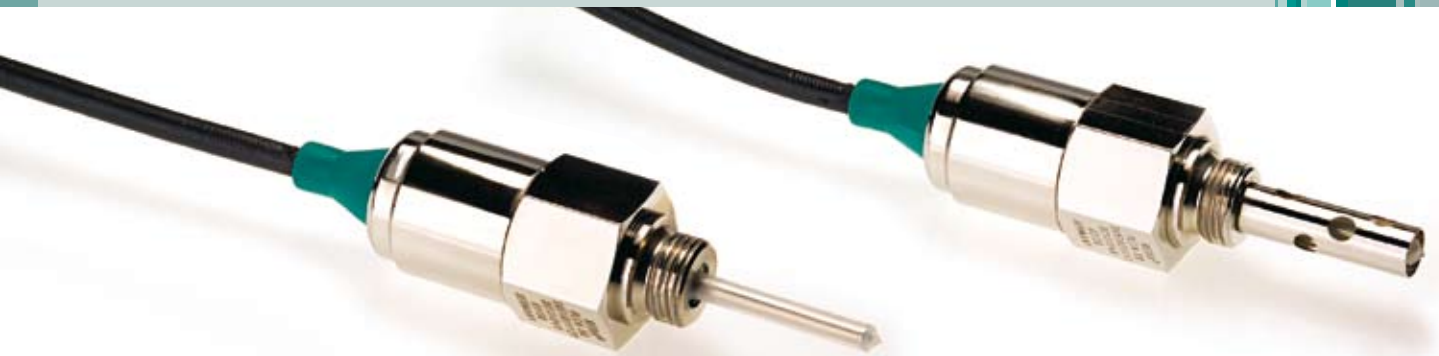
Accessories for approved probes

Ref.-No.	Description
Connector	
420 702	90° connector for cable
420 703	Straight connector for cable
Cable with connector	
420 800	Cable with connector 420 703 2000 mm
420 801	Cable with connector 420 703 5000 mm
420 802	Cable with connector 420 702 2000 mm
420 803	Cable with connector 420 702 5000 mm
Approved cable	
421 646	3 x 1,5 mm ² cable, approved, available in meters
Brazed adapter	
421 648	Brazed adapter, internal thread M 18 x 1,5

» Level probes type PLCA 50

with cable

Degree of protection IP 68 up to 30 m depth in liquids to DIN 40050 and IP69K to DIN 40052



CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societies

Thread	Monitoring display	Integral control function	Monitoring delay	Signal output – potential		Signal output + potential	
				Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.	Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.
Level sensors output OC, operating current							
M 18 x 1,5	MIN	0 sec	7 sec	–	50 520 211 11	–	50 520 221 11
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 610 221 11	50 620 221 11
M 18 x 1,5	MIN	0 sec	2 sec	–	50 520 211 17	–	–
M 18 x 1,5	MIN	2 sec	7 sec	50 510 211 21	50 520 211 21	–	50 520 221 21
M 18 x 1,5	MAX	0 sec	7 sec	50 510 212 11	–	50 510 222 11	50 520 222 11
M 18 x 1,5	MAX	0 sec	7 sec	–	–	–	50 620 222 11
M 18 x 1,5	MAX	2 sec	7 sec	–	–	50 510 222 21	–
G 1/2"	MIN	2 sec	7 sec	–	–	50 521 321 21	–
Level sensors output QC, quiescent current							
M 18 x 1,5	MAX	0 sec	0 sec	50 510 214 18	50 520 214 18	–	–
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 510 223 11	50 520 223 11
M 18 x 1,5	MIN	0 sec	7 sec	–	–	–	50 620 223 11
M 18 x 1,5	MAX	0 sec	7 sec	–	–	50 510 224 11	50 520 224 11
M 18 x 1,5	MAX	0 sec	7 sec	–	–	–	50 620 224 11
M 18 x 1,5	MAX	2 sec	7 sec	–	50 520 214 21	–	–
M 18 x 1,5	MIN	0 sec	20 sec	–	–	–	50 520 223 14

Accessories for approved probes

Ref.-No.	Description
418 050	Cable EPD 80297A-3x44A0111-20 approved, available in meters
421 648	Brazed adapter, internal thread M 18 x 1,5

» Level probes type PLCA 50

sensor with connector bayonet 10 SL according VG 0095342

Degree of protection IP 67 to DIN 40050



CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societies

Thread	Monitoring display	Integral control function	Monitoring delay	Signal output – potential		Signal output + potential	
				Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.	Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.
Level sensors output OC, operating current							
M 18 x 1,5	MAX	2 sec	7 sec	50 110 212 21	50 120 212 21	–	–
M 18 x 1,5	MIN	0 sec	7 sec	–	–	–	50 120 221 11
M 18 x 1,5	MIN	2 sec	7 sec	50 110 211 21	50 120 211 21	50 110 221 21	50 120 221 21
M 18 x 1,5	MAX	0 sec	7 sec	50 110 212 11	50 120 212 11	50 110 222 11	50 120 222 11
M 18 x 1,5	MIN	0 sec	20 sec	–	–	–	50 120 221 14
M 18 x 1,5	MAX	0 sec	20 sec	–	–	–	50 120 222 14
M 18 x 1,5	MAX	0 sec	0 sec	–	–	–	50 120 222 18
G 1/2"	MIN	2 sec	7 sec	–	–	–	50 120 321 21
G 1/2"	MAX	2 sec	7 sec	–	–	–	50 120 322 21
Level sensors output QC, quiescent current							
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 110 223 11	50 120 223 11
M 18 x 1,5	MIN	0 sec	20 sec	–	50 120 213 14	–	50 120 223 14
M 18 x 1,5	MIN	2 sec	7 sec	–	–	50 110 223 21	50 120 223 21

Accessories for approved probes

Ref.-No.	Description
Connector	
421 652	Straight connector, thread, 10 SL
421 885	90° connector, thread, 10 SL
Cable	
421 653	Cable with connector 421 652 2000 mm
421 657	Cable with connector 421 652 5000 mm
421 646	3 x 1,5 mm ² cable, approved, available in meters
Brazed adapter	
421 648	Brazed adapter, internal thread M 18 x 1,5

» Level probes type PLCA 50

with connector thread 5/8-24 NEF-2A according VG 0095342

Degree of protection IP 67 to DIN 40050

CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societys

Thread	Monitoring display	Integral control function	Monitoring delay	Signal output – potential		Signal output + potential	
				Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.	Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.
Level sensors output OC, operating current							
M 18 x 1,5	MIN	2 sec	7 sec	50 210 211 21	50 220 211 21	50 210 221 21	50 220 221 21
M 18 x 1,5	MAX	0 sec	7 sec	50 210 212 11	50 220 212 11	–	50 220 222 11
M 18 x 1,5	MAX	2 sec	7 sec	–	50 220 212 21	50 210 222 21	–
M 18 x 1,5	MAX	0 sec	7 sec	–	–	–	50 220 222 11
Level sensors output QC, quiescent current							
M 18 x 1,5	MIN	0 sec	7 sec	50 210 213 11	50 220 213 11	–	–



Accessories for approved probes

Ref.-No.	Description
Connector	
421 645	Straight connector, thread, 10 SL
421 649	90° connector, thread, 10 SL
Cable with connector	
421 647	Cable with connector 421 645 2000 mm
421 776	Cable with connector 421 645 3000 mm
421 654	Cable with connector 421 645 5000 mm
421 666	Cable with connector 421 645 6000 mm
421 655	Cable with connector 421 649 2000 mm
421 656	Cable with connector 421 649 5000 mm
Approved cable	
421 646	3 x 1,5 mm ² cable, approved, available in meters
Brazed adapter	
421 648	Brazed adapter, internal thread M 18 x 1,5

» Level probes type PLCA 50

with connector for bayonet DIN 43650

Degree of protection IP 65 to DIN 40050

CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societys

Thread	Monitoring display	Integral control function	Monitoring delay	Signal output – potential		Signal output + potential	
				Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.	Aqueous Liquids Ref.-No.	Oil and fuel Ref.-No.
Level sensors output OC, operating current							
M 18 x 1,5	MAX	0 sec	0 sec	–	–	–	50 420 222 18
M 18 x 1,5	MIN	2 sec	7 sec	50 410 211 21	50 420 211 21	50 410 221 21	50 420 221 21
M 18 x 1,5	MAX	2 sec	7 sec	–	50 420 212 21	50 410 222 21	50 420 222 21
M 18 x 1,5	MIN	0 sec	7 sec	–	–	50 410 221 11	50 420 221 11
M 18 x 1,5	MAX	0 sec	7 sec	50 410 212 11	50 420 212 11	–	–
1/2" NPTF	MIN	2 sec	7 sec	50 410 511 21	50 420 511 21	50 410 521 21	50 420 521 21
1/2" NPTF	MAX	2 sec	7 sec	50 410 512 21	–	–	–
G 1/2"	MAX	2 sec	0 sec	–	–	–	50 420 322 28
G 1/2"	MIN	2 sec	2 sec	–	–	–	50 420 321 27
G 1/2"	MAX	2 sec	2 sec	–	–	–	50 420 322 27
G 1/2"	MIN	2 sec	7 sec	50 410 311 21	–	50 410 321 21	50 420 321 21
G 3/8"	MAX	2 sec	7 sec	–	–	–	50 420 422 21
Level sensors output QC, quiescent current							
M 18 x 1,5	MAX	0 sec	0 sec	–	50 420 214 18	–	–
M 18 x 1,5	MAX	0 sec	7 sec	–	–	50 410 224 11	50 420 224 11
M 18 x 1,5	MIN	0 sec	7 sec	50 410 213 11	50 420 213 11	50 410 223 11	–
M 18 x 1,5	MAX	2 sec	7 sec	–	–	50 410 224 21	50 420 224 21
G 1/2"	MIN	2 sec	2 sec	50 410 313 27	–	–	–
G 1/2"	MIN	0 sec	7 sec	–	–	–	50 420 323 11
G 1/2"	MIN	2 sec	7 sec	–	–	50 410 323 21	–
G 1/2"	MAX	0 sec	7 sec	–	–	–	50 420 324 11



Accessories for approved probes

Ref.-No.	Description
Connector	
421 880	Connector to DIN 43 650-A
Cable with connector	
421 875	Cable with connector 421 880 to DIN 43 650-A 2000 mm
421 876	Cable with connector 421 880 to DIN 43 650-A 5000 mm
Approved cable	
421 646	3 x 1,5 mm ² cable, approved, available in meters
Brazed adapter	
421 648	Brazed adapter, internal thread M 18 x 1,5

» Technical data

for Level probes type PLCA 50 at $T_u = 25\text{ °C}$

Voltage rating:	DC 12/24 V (-25 %/+30 %)
Current consumption:	typ. 8 mA
Signal output switching capacity:	12 W/12 V; 24 W/24 V short-circuit and overload protected over the ambient temperature range
Switch point vertically mounted:	18 mm ± 6 mm
Switch point horizontally mounted:	2,5 mm ± 1 mm
Switch point hysteresis:	typ. < 3 mm
Medium temperature:	-30 °C to +125 °C
Ambient temperature:	-30 °C to +125 °C
Storage temperature:	-50 °C to +125 °C
Fault indication delay/Function test:	see ordering information
Reverse polarity protection:	in-built, between plus and minus terminal

Caution!

With low-side switching sensors do not connect minus potential to signal terminal and plus potential to minus terminal. With high-side switching sensors do not connect plus potential to signal terminal and minus potential to plus terminal. Inductive loads: A free wheeling diode, e.g. 1N4007, has to be mounted at the load

Voltage drop:	< 300 mV/1 A
Overvoltage protection:	Limits the voltage to approx. 40 V. (suppression diode)
Vibration:	IEC 68-2-6 2–25 Hz 1,6 mm Amplitude; 25–100 Hz 4 g
Pressure resistance:	25×10^5 Pa (25 bar = 367,5 PSI)
Degree of protection:	see following pages
Mounting attitude:	optional
Housing:	capacitively connected to ground
Material:	brass – CuZn38Pb1,5 galvanic nickeled, probe coating: Tefzel® ETFE
Mass:	approx. 180 g
Cable connection/Mounting thread:	see ordering information
Marking:	laser
Connection turning moment:	max. 50 Nm
EMC	
Electrostatic discharge:	IEC 1000-4-2 8 kV air discharge, 6 kV contact discharge
Radiated Electro-magnetic fields:	IEC 1000-4-3 10 V/m; 27 MHz to 1000 MHz, 80% AM (1 kHz)
Burst:	IEC 1000-4-4 2 kV power supply, 1 kV signal output
Surge:	IEC 1000-4-5 1 kV diff. mode: power supply, 2 kV common mode: power supply, 2 kV common mode: signal output
Conducted high frequency:	IEC 1000-4-6 3 V, 10 kHz to 80 MHz, 80% AM (1 kHz)
Conducted low frequency:	IEC 945 3 V rms, 50 kHz to 10 kHz

» Ordering key

for Level probes type PLCA 50

PLCA 50 Point Level Control Approval

50	PLCA-50 Point Level Control Approval		Typ
	DC 12 V/24 V (-25%/+30%)		Voltage rating
	1	Bayonet 10 SL to VG 0095342	Connection type
	2	Thread 5/8 - 24NEF -2A to VG 0095342	
	3	Bayonet to DIN 72585 - A1-3.1-Sn / K1	
	4	Connector to DIN 43650	
	5	Cable 5 m standard	
	6	Cable 10 m	
	7	Jeager connector 2 m cable	
	8	IT Cannon connector 5 m cable	
	9	Cable 7 m	
10	Jeager connector 3,5 m cable		
11	Bajonett 12 Sl nach VG 0095342		
	1	for water and liquids of similar viscosity's	Medium
	2	for oil and fuel	
	01	M 16 x 1,5	Thread sizes
	02	M 18 x 1,5 standard	
	03	G 1/2"	
	04	G 3/8"	
	05	1/2" NPTF	
	06	3/8" NPTF	
	07	M 14 x 1,5	
	1	Minus switching	Signal output
	2	Plus switching	
	1	Minimum, operating current	Function
	2	Maximum, operating current	
	3	Minimum, no-load current	
	4	Maximum, no-load current	
	1	0 sec	Functional test
	2	2 sec standard	
	3	1 sec	
	1	7 sec standard	Response delay
	2	15 sec	
	3	3 sec	
	4	20 sec	
	5	17 sec	
	6	3600 sec	
	7	2 sec	
	8	0 sec	
50			

» Level probes type PLCA 55



Probe for aqueous liquids



Probe for oily liquids

CE-marking to EC-directive 89/336/EWG (EMC-directive), with approvals of the classification societies

Technical description

The Level sensor PLCA 55 is working with 5 V DC supply voltage. They operate in the principle of electrical capacitance changes arising when an electrode surrounded by air is immersed in a liquid medium. This capacitance change causes the electrical circuit at the sensor electrode to oscillate (approx. 600kHz); the resultant signal is processed in the digital control unit.

To order a sensor please use the ordering key on page 22.

» Technical data

for Level probes type PLCA 55

at $T_u = 25\text{ °C}$

Voltage rating:	DC 5 V ($\pm 0,25$ V)
Current consumption:	typ. 8 mA
Signal output:	voltage
At $-30\text{ °C} \dots 125\text{ °C}$:	0,5 V und 4,5 V
Wire break detection:	0,4 V ... 0,6 V und 4,4 V ... 4,6 V at 10 mA
GND:	> 4,84 V
SIGNAL:	< 0,20 V
U_B :	< 0,20 V
Output current:	< 10 mA short-circuit and overload protected over the ambient temperature range
Switch point vertically mounted:	18 mm \pm 6 mm
Switch point horizontally mounted:	2,5 mm \pm 1 mm
Switch point hysteresis:	typ. < 3 mm
Medium temperature:	-30 °C to $+125\text{ °C}$
Ambient temperature:	-30 °C to $+125\text{ °C}$
Storage temperature:	-50 °C to $+125\text{ °C}$
Fault indication delay, Function test, Function:	see ordering information
Reverse polarity protection:	in-built between plus and minus terminal
Vibration:	IEC 68-2-6 2–25 Hz 1,6 mm Amplitude; 25–100 Hz 4 g
Pressure resistance:	25×10^5 Pa (25 bar = 367,5 PSI)
Degree of protection:	DIN 40050
Mounting attitude:	optional
Housing:	capacitively connected to ground
Material:	Messing – CuZn38Pb1,5 galvanic nickel plated Probe coating: Tefzel® ETFE
Weight:	approx. 180 g
Mounting thread:	see ordering information
Marking:	laser
Connection turning moment:	max. 50 Nm
EMC	
Electrostatic discharge:	IEC 1000-4-2 8 kV air discharge, 8 kV contact discharge
Radiated electro-magnetic fields:	IEC 1000-4-3 10 V/m; 80 MHz to 2000 MHz, 80% AM (1 kHz)
Burst:	IEC 1000-4-4 2 kV capacitive coupling
Conducted high frequency:	IEC 1000-4-6 3 V, 9 kHz to 240 MHz, 80% AM (1 kHz)
Conducted emissions:	CISPR 16-1,2 10 kHz ... 150 kHz, 64 dB ... 44 dB (V/m); 150 kHz ... 350 kHz, 65 dB ... 44 dB (V/m); 350 kHz ... 30 MHz, 65 dB (V/m)
Radiated emissions from enclosure port:	CISPR 16-1,2 150 kHz ... 300 kHz, 80 dB ... 52 dB (V/m); 300 kHz ... 30 MHz, 52 dB ... 34dB (V/m); 30 MHz ... 2 GHz, 54 dB (V/m)

» Ordering key

for Level probes type PLCA 55

PLCA 55 Point Level Control Approval

55	PLCA-55 Point Level Control Approval		Typ	
	DC 5 V (+/-0,25 V)		Voltage rating	
	Connection type	1	Bayonet 10 SL to VG 0095342	Connection type
		2	Thread 5/8 - 24NEF -2A to VG 0095342	
		3	Bayonet to DIN 72585 - A1-3.1-Sn / K1	
		4	Connector to DIN 43650	
		5	Cable 5 m standard	
		6	Cable 10m	
	Medium	1	for water and liquids of similar viscosity's	Medium
		2	for oil and fuel	
	Thread sizes	01	M 16 x 1,5	Thread sizes
		02	M 18 x 1,5 standard	
		03	G 1/2"	
		04	G 3/8"	
		05	1/2" NPTF	
		06	3/8" NPTF	
		07	M 14 x 1,5	
	Function	1	Minimum, High Level HL	Function
		2	Maximum, High Level HL	
		3	Minimum, Low Level LL	
		4	Maximum, Low Level LL	
	Functional test	1	0 sec	Functional test
		2	2 sec standard	
		3	1 sec	
	Response delay	1	7 sec standard	Response delay
		2	15 sec	
3		3 sec		
4		20 sec		
5		17 sec		
6		3600 sec		
7		2 sec		
8		0 sec		
55				



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