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Electromagnetic float level indicators use the action of a magnet fixed to the float to change the electrical status of a reed switch mounted inside the tube.

As the fluid level in the tank changes, the float moves together with the magnet that, connected with the reed switch, move the contacts thereby tripping an alarm signal.

The movement of the float is normally limited by mechanical stops because once the magnet exceeds the point at which it activates the reed switch, the switch reverts to its original status.

To invert the contact status from N.O. to N.C. and vice versa, it is sufficient to invert the float.

LEN - LEG - LET - LEM - LEU series

Electrical oil level indicators



LEN GENERAL INFORMATION

Technical data

Electrical Oil Level Indicators

LEN is a range of electrical fluid level indicators for monitoring of the fluid level into the tank.

They are directly fitted on the tank.

The float moves through the rod while the fluid level changes.

A magnet, fitted into the float, turns a reed sensor fixed into the rod.

Available features:

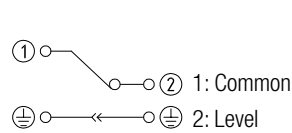
- G 1" male threaded or flanged connections
- Adjustable size on request, to meet every size of tank
- 1 or 2 floats, to monitor the minimum level, the maximum level or both of them

Common applications:

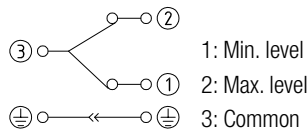
- Hydraulic systems
- Mobile machines
- Industrial equipment

Electrical symbol:

LEN 1 Float



LEN 2 Floats



Note: to invert the contact status from NC to NO and vice versa, simply invert the float.

Materials

- Flange/Threaded body: Aluminium
- Tube: Brass
- Float: Polyamide foam
- O-Ring: NBR
- Circlip: Phosphor bronze
- Contact: N.C. (Normally Closed)

Electrical data

- Protection rating: IP65
- Max switching capacity: 80 W
- Max switching current: 1 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

Temperature

From -15 °C to + 80 °C

Weight

LEN 1 float 0.185 kg
LEN 2 floats 0.230 kg

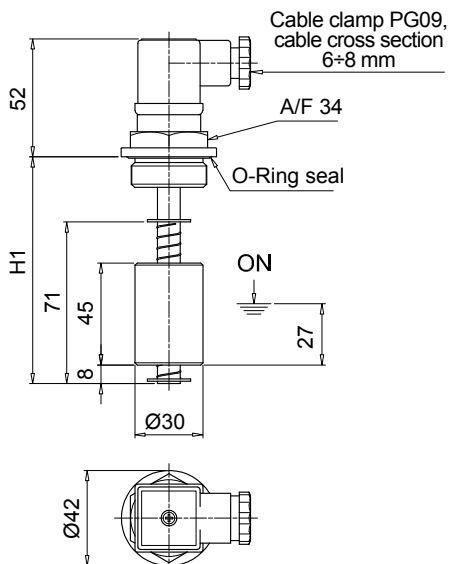


Designation & Ordering code

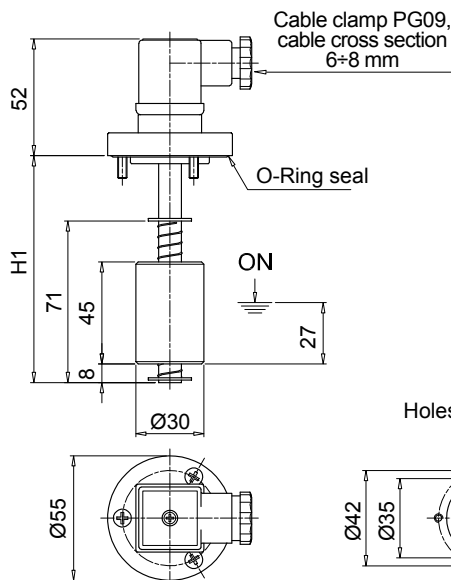
COMPLETE ELECTRICAL OIL LEVEL INDICATORS

Series	Configuration example :									
LEN	LEN	A	350	2	A	1	A	G	S	P01
Tube material										
A Brass										
Length										
150 200 250 350 400 500										
Number of floats	Length									
	150	200	250	350	400	500				
1 Nr. 1 float	•	•	•	•	•	•				
2 Nr. 2 floats	-	•	•	•	•	•				
Float material										
A Polyamide foam										
Electrical switch										
1 N.C. (Normally Closed)										
Seals										
A NBR										
Connections										
G G 1"										
F Nr. 3 holes flange										
Electrical connection										
S EN 175301-803 connector										
										Execution
										P01 MP Filtri standard
										Pxx Customized

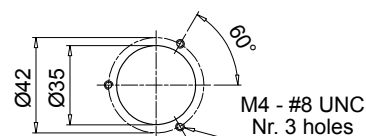
Connection "G"



Connection "F"



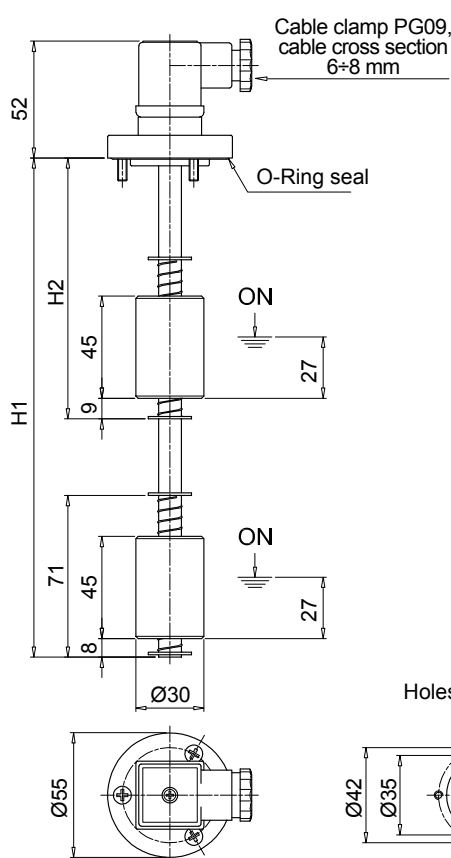
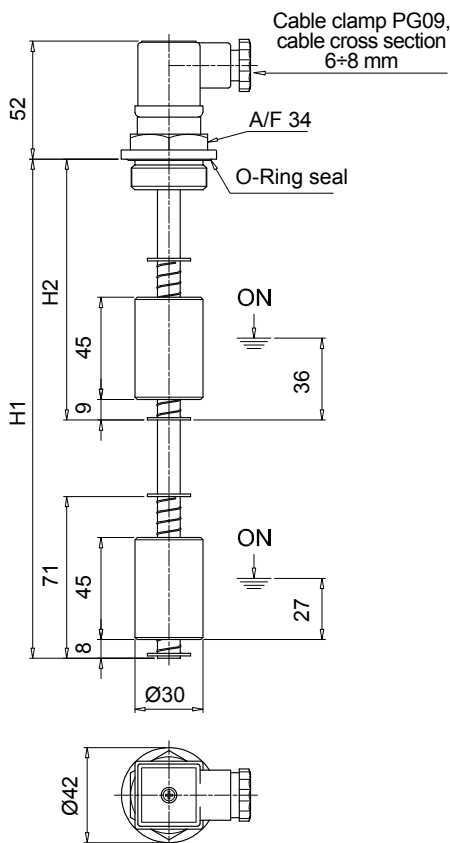
Holes on the tank



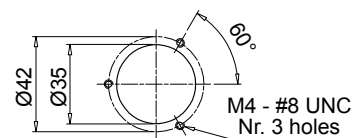
LEN

Nr. 1 float

Length	H1 [mm]
150	150
200	200
250	250
350	350
400	400
500	500



Holes on the tank

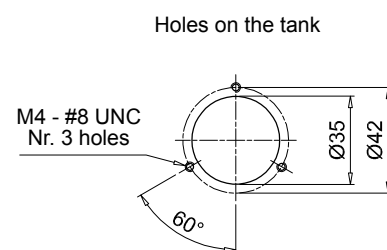
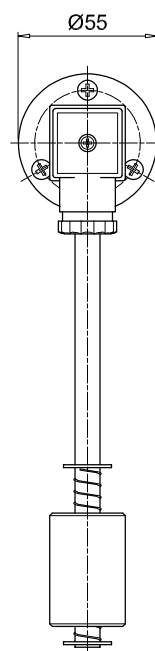
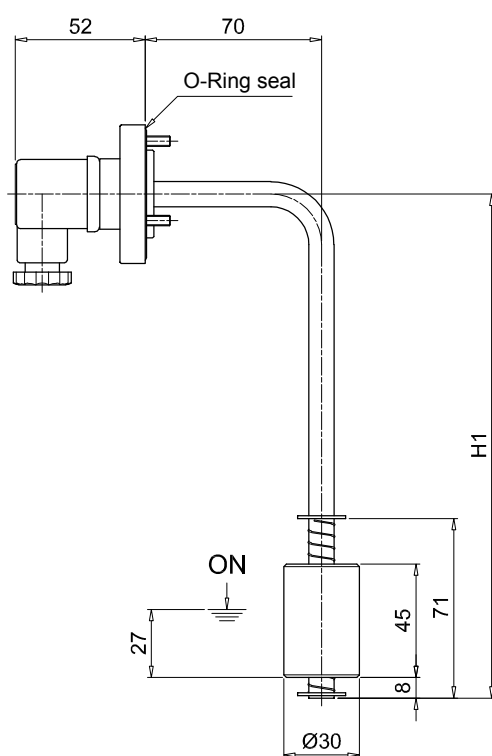


LEN

Nr. 2 floats

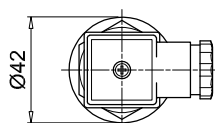
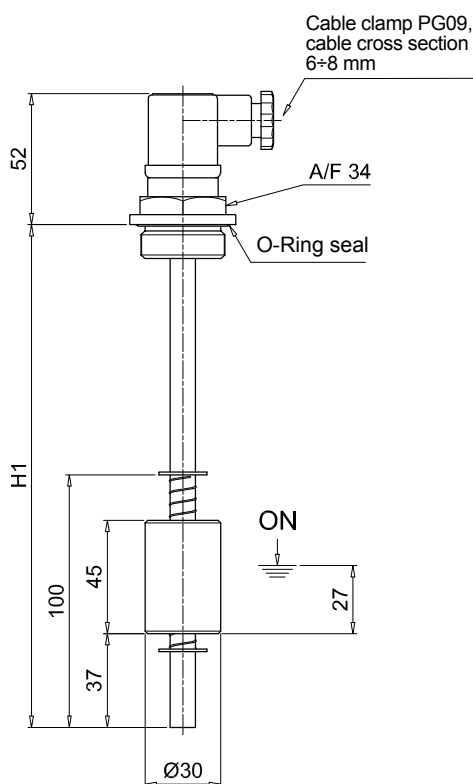
Length	H1 [mm]	H2 [mm]
200	200	95
250	250	105
350	350	115
400	400	115
500	500	125

LEG	
Size	H1 [mm]
LEG 102	103
LEG 200	200

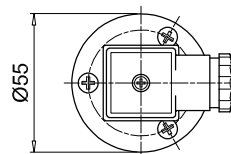
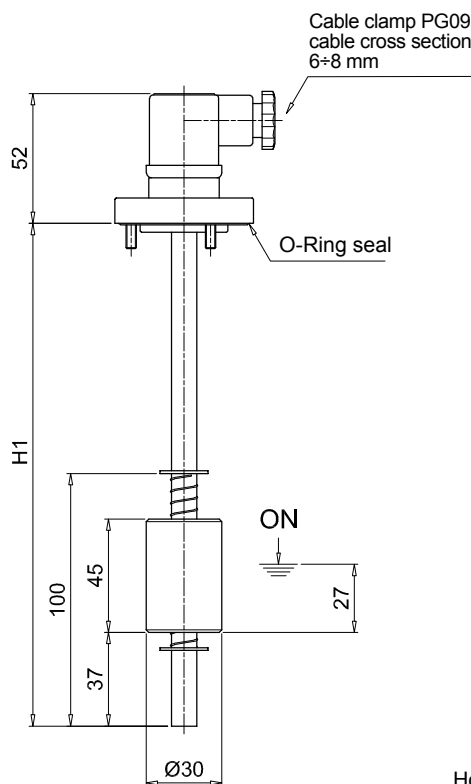


LET	
Length	H1 [mm]
200	200
300	300
400	400

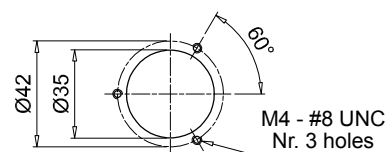
Connection "G"



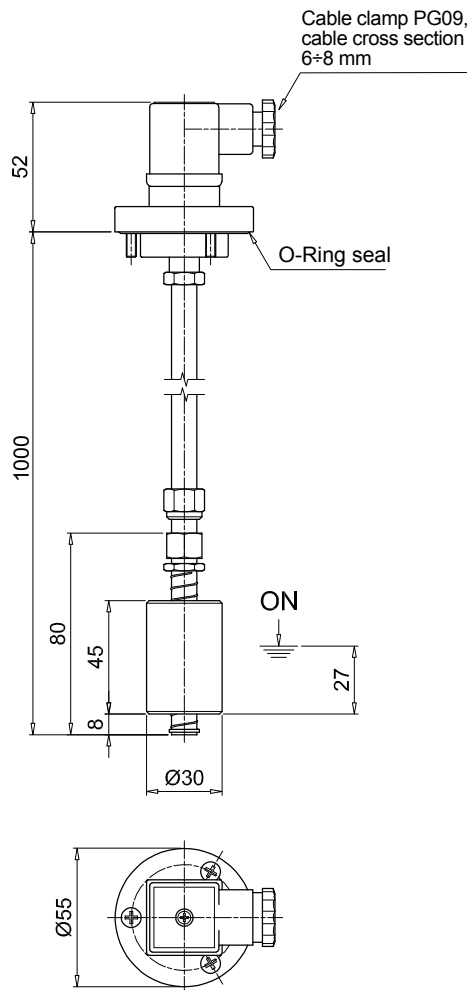
Connection "F"



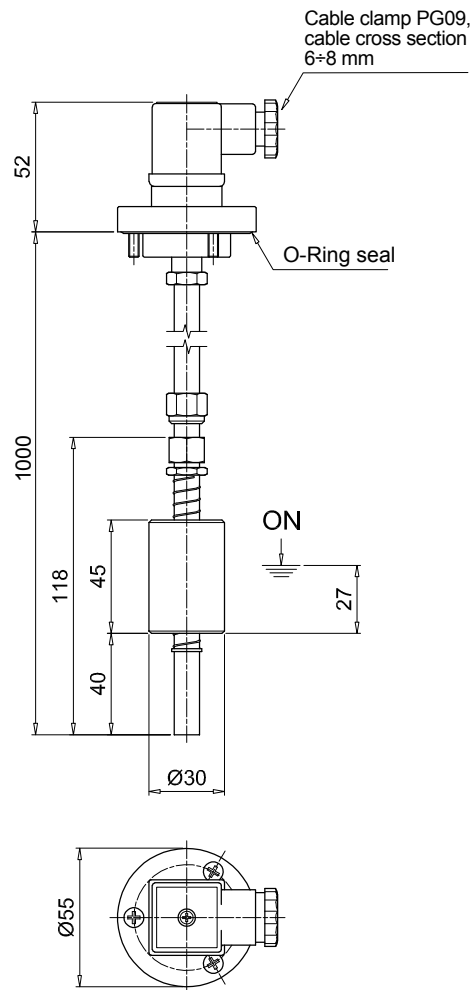
Holes on the tank



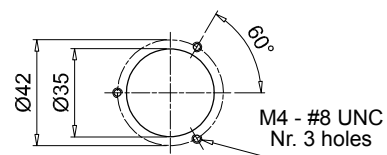
Without thermostat



With thermostat



Holes on the tank



Technical data

Electrical Oil Level Indicators

LEU is a range of electrical fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank.
The float moves through the rod while the fluid level changes.
A magnet, fitted into the float, turns a reed sensor fixed into the rod.
The setting point is adjustable on site, with few easy actions.
They are made of stainless steel, to meet every heavy duty application.

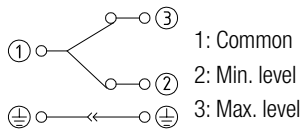
Available features:

- Flanged connections
- Setting size for each tank type
- Double Floating monitor for oil level check

Common applications:

- Hydraulic systems
- Mobile machines
- Industrial equipment

Electrical symbol:



Note: to invert the contact status from NC to NO and vice versa, simply invert the float.

Materials

- Flange / Threaded body: Aluminium
- Tube: AISI 304
- Float: NBR, AISI 316 (on request)
- O-Ring: NBR
- Circlip: AISI 304
- Float contact: N.C. reed, N.O. (on request)

Electrical data

- Protection rating: IP65
- Max switching capacity: 50 W
- Max switching current: 0.5 A
- Max switching voltage: 250 Vac
- Fluid specific gravity: > 0.75

Temperature

From -15 °C to + 80 °C

Weight

LEU 0.415 kg



Designation & Ordering code

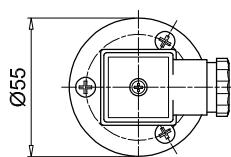
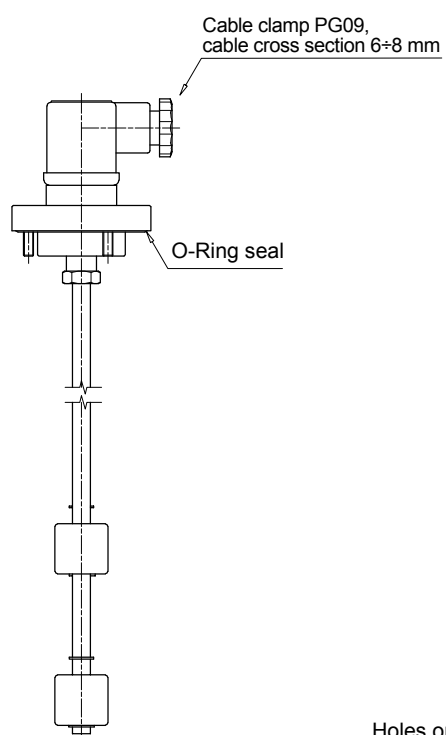
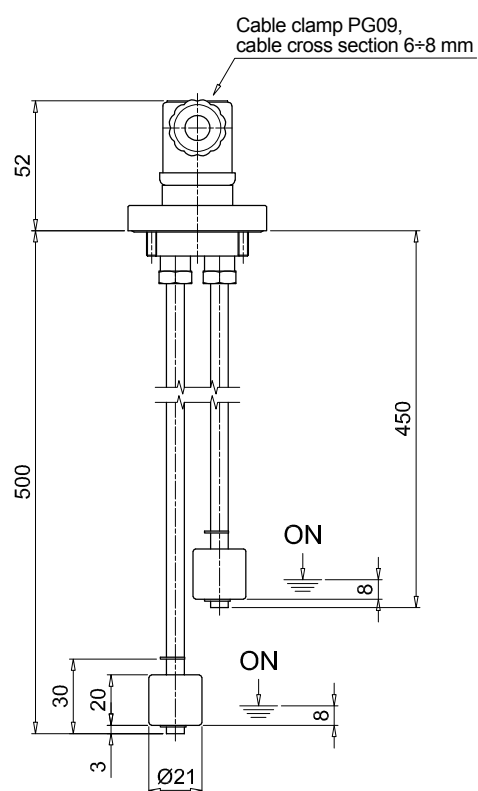
COMPLETE ELECTRICAL OIL LEVEL INDICATOR

Series	Configuration example :	LEU	B	2	B	1	A	F	S	P01
LEU										
Tube material										
B AISI 304										
Number of floats										
2 Nr. 2 floats										
Float material										
B NBR										
Electrical switch										
1 N.C. (Normally Closed)										
Seals										
A NBR										
Connections										
F Nr. 3 holes flange										
Electrical connection										
S EN 175301-803 connector										

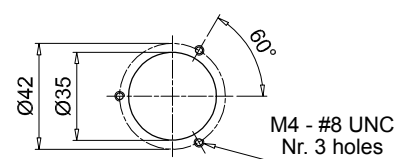
Execution

P01 MP Filtri standard

Pxx Customized



Holes on the tank



LVK series

Electrical and visual oil level indicator



Technical data

Electrical Oil Level Indicators

LVK is a range of electrical and visual fluid level indicators for monitoring of the fluid level into the tank. They are directly fitted on the tank side. The float moves through the indicator housing while the fluid level changes.

Available features:

- Several male threaded connections
- Three different sizes, to meet every size of tank
- Thermometer, thermostat or PT100, to check the temperature of the fluid

Common applications:

- Hydraulic systems
- Mobile machines
- Industrial equipment

Electrical symbol:

see page. 108

Materials

- Head: Polyamide
- Screws: Nickel plated brass (standard), AISI 314 (optional)
- Seal: NBR (standard)
- Float: Polyamide
- Sensor thermometer: Screw + thermometer

Temperature

From -20 °C to + 80 °C

Weight

LVK 10	0.140 kg
LVK 20	0.170 kg
LVK 30	0.250 kg



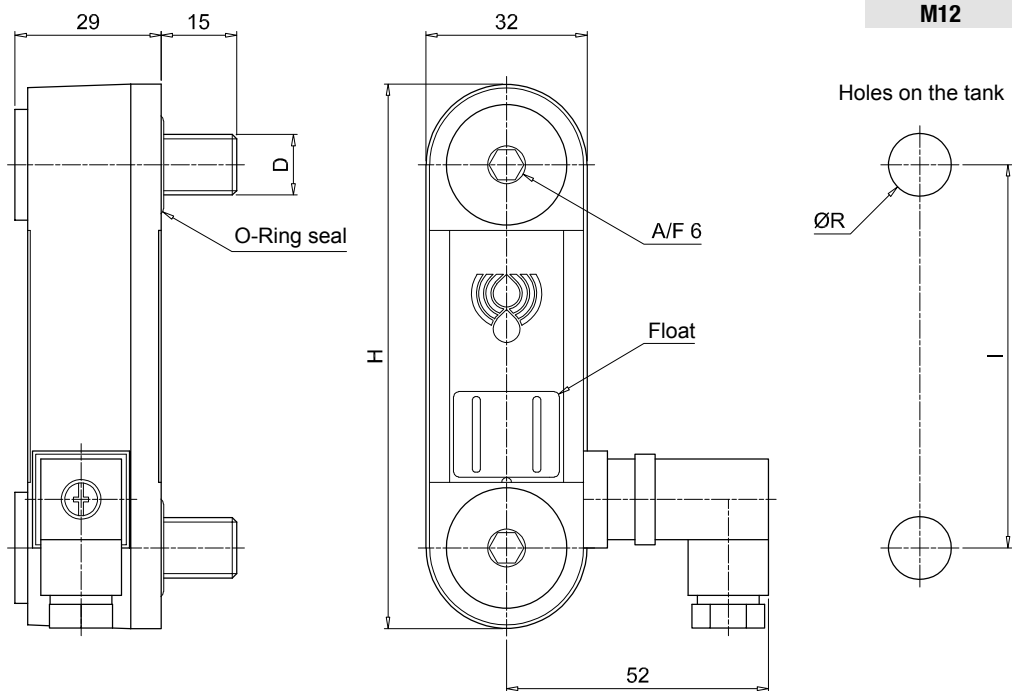
Designation & Ordering code

COMPLETE ELECTRICAL AND VISUAL OIL LEVEL INDICATORS

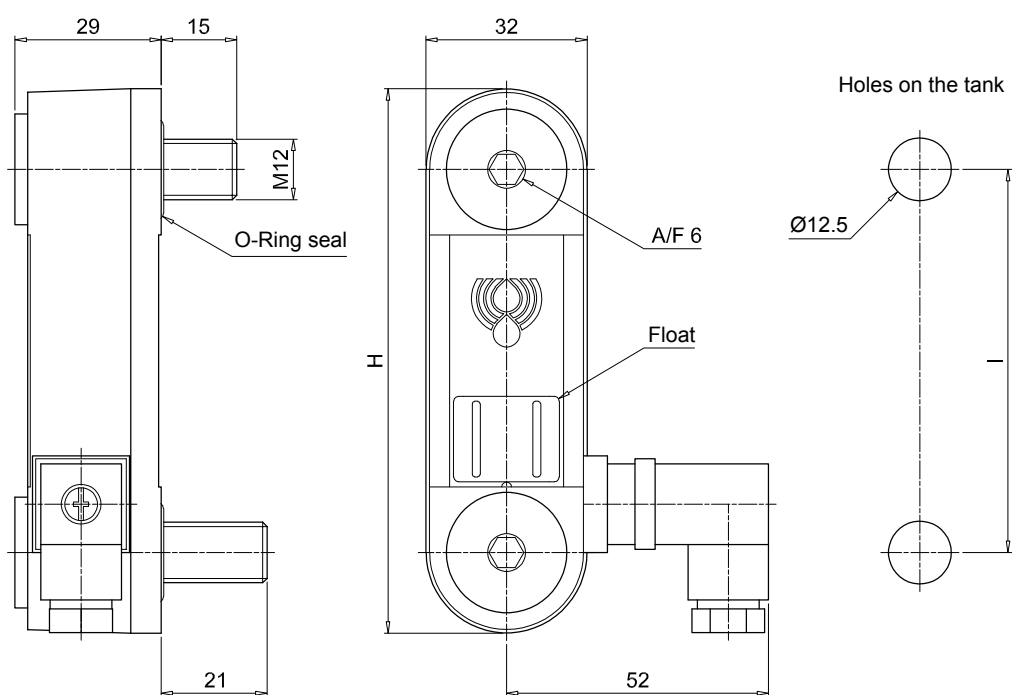
Series	Configuration example : LVK 20 A M12 1 T 5 P01								
LVK									
Length	10 20 30								
Seals	A NBR								
Connections	M10 Screws M10 M12 Screws M12								
Electrical switch in absence of fluid	1 N.O. (Normally Open) 2 N.C. (Normally Closed) 3 SPDT (single-pole, double throw)								
Version		Connection							
		M10	M12						
S Standard		•	•						
T With thermostat		-	•						
P With PT100 sensor		-	•						
Thermostat setting		Version							
		S	T	P					
S Standard (no setting)		•		•					
1 50°C N.O. (Normally Open)		-	•	-					
2 60°C N.O. (Normally Open)		-	•	-					
3 70°C N.O. (Normally Open)		-	•	-					
5 50°C N.C. (Normally Closed)		-	•	-					
6 60°C N.C. (Normally Closed)		-	•	-					
7 70°C N.C. (Normally Closed)		-	•	-					
Execution									
P01 MP Filtri standard									
Pxx Customized									

LVK		
Size	H [mm]	I [mm]
10	108	76
20	159	127
30	286	254
Connections	D [mm]	ØR [mm]
M10	M10	10.5
M12	M12	12.5

Without thermostat

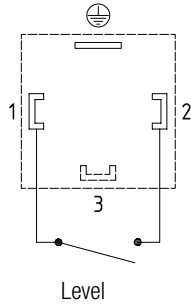


With thermostat

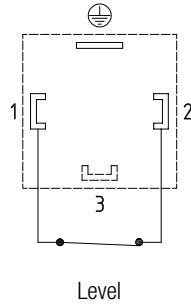


Electrical symbols

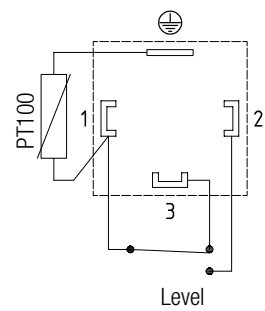
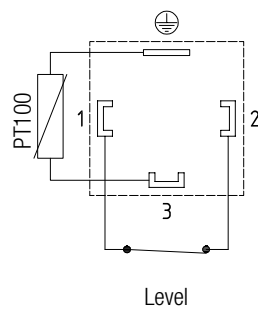
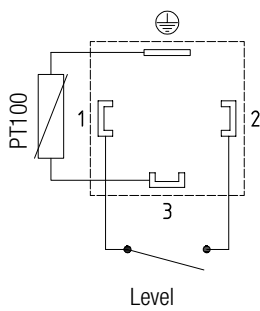
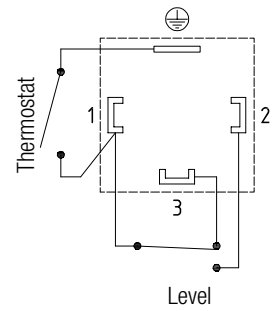
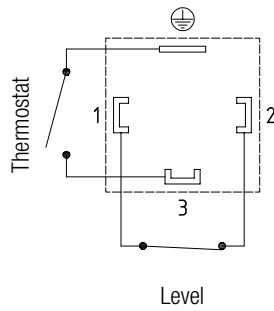
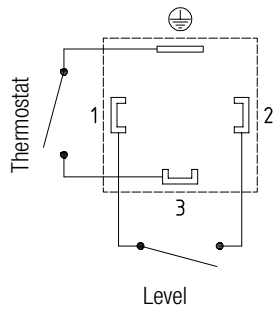
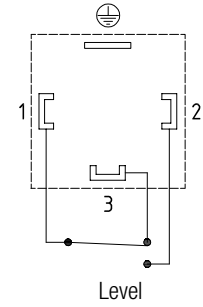
N.O.
(Normally Open)



N.C.
(Normally Closed)



SPDT
(single-pole, double-throw)



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