ELECTRICAL OIL LEVEL INDICATORS

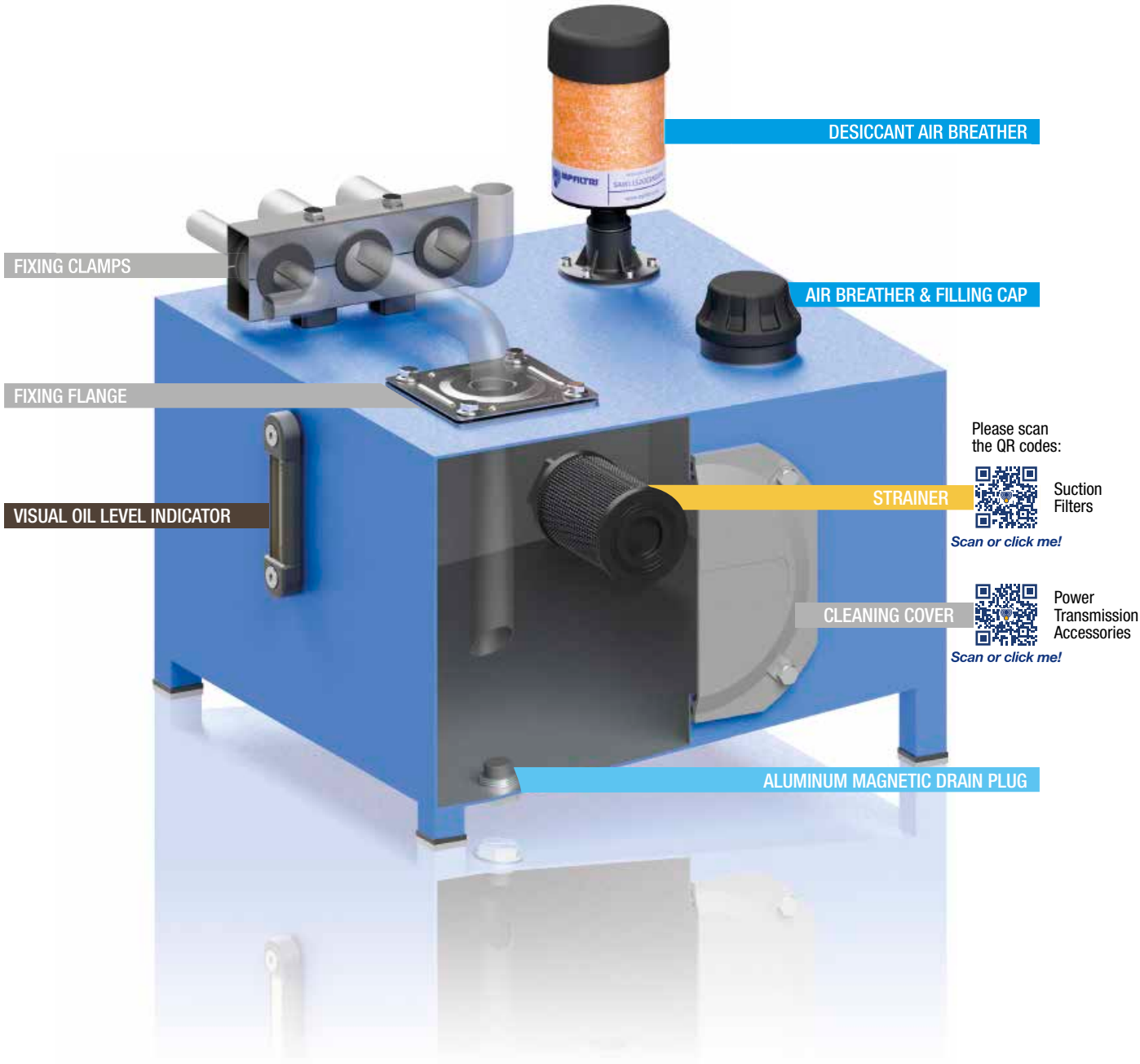
TANK ACCESSORIES

CATALOGUE

MPFILTRI®

PASSION TO PERFORM

TANK ACCESSORIES



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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.

Electrical Oil Level Indicators

LEN - LEG - LET - LEM - LEU series

Electrical oil level indicators

Technical data

Electrical Oil Level Indicators

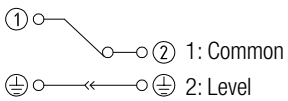
LEN is a range of electrical fluid level indicators for monitoring of the fluid level into the tank.
They are directly fitted on the tank.
The float moves through the rod while the fluid level changes.
A magnet, fitted into the float, turns a reed sensor fixed into the rod.

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

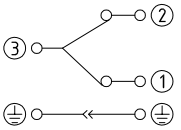
Common applications:
- Hydraulic systems
- Mobile machines
- Industrial equipment

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

Configuration example :

LEN	A	350	2	A	1	A	G	S	P01

Series
LEN

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

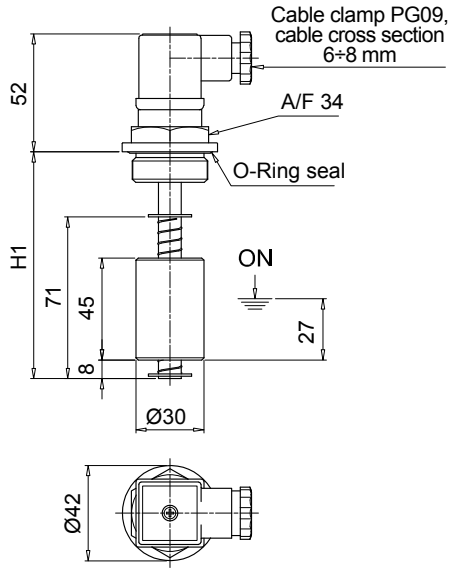
Electrical connection
S EN 175301-803 connector

Execution
P01 MP Filtri standard
Pxx Customized

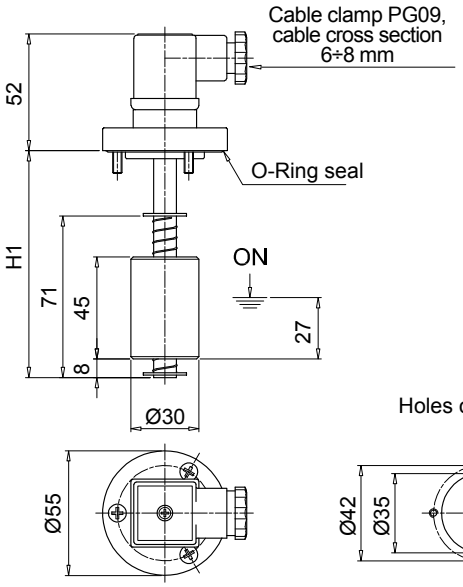
LEN
Nr. 1 float

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

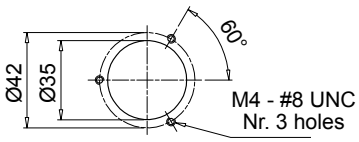
Connection “G”



Connection “F”

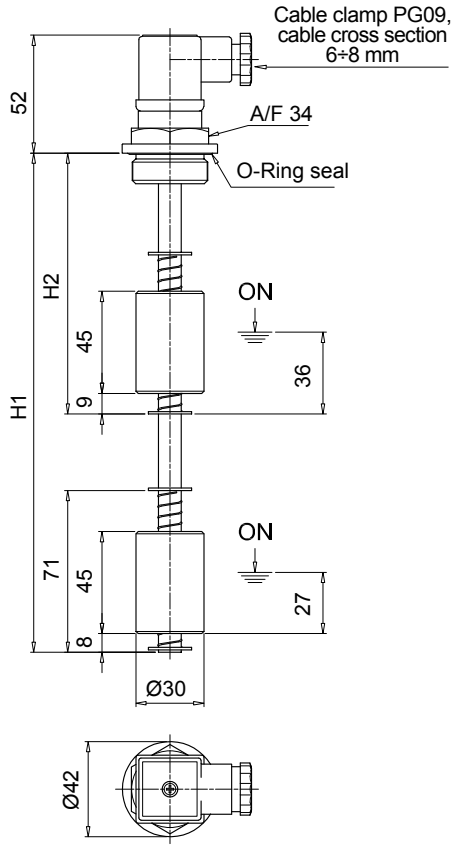


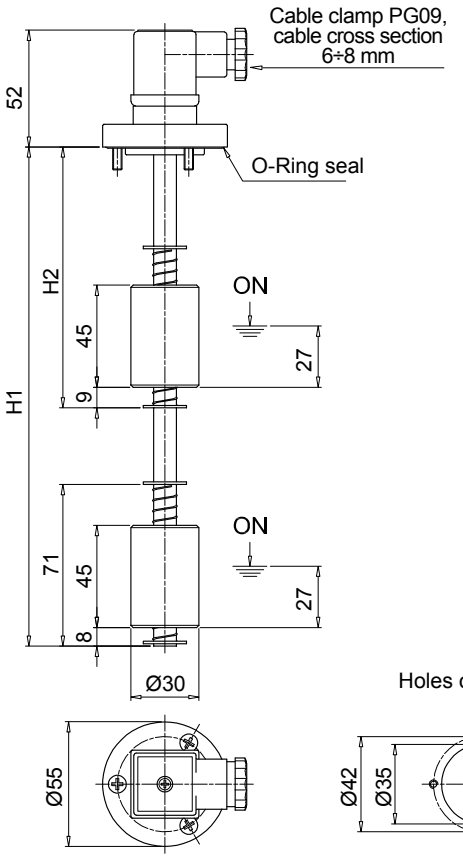
Holes on the tank



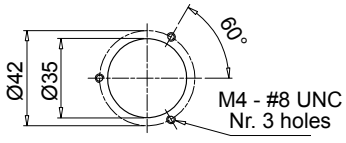
LEN
Nr. 2 floats

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





Holes on the tank



Technical data

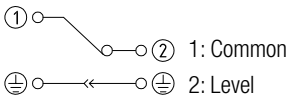
Electrical Oil Level Indicators

LEG is a range of electrical 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 rod while the fluid level changes.
A magnet, fitted into the float, turns a reed sensor fixed into the rod.

Available features:
- Flanged connections
- Adjustable size on request, to meet every size of tank
- 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: 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

The electrical properties indicated are referred to resistive loads; for capacitive and inductive loads and incandescent lamps, use protection circuits.

Temperature
From -15 °C to + 80 °C

Weight
LEG A 102 0.19 kg
LEG A 200 0.22 kg

Designation & Ordering code

COMPLETE ELECTRICAL OIL LEVEL INDICATOR

Configuration example : LEG | A | 200 | 1 | A | 1 | A | F | S | P01

Series
LEG

Tube material
A Brass

Length
102 | **200**

Number of floats
1 Nr. 1 float

Float material
A Polyamide foam

Electrical switch
1 N.C. (Normally Closed)

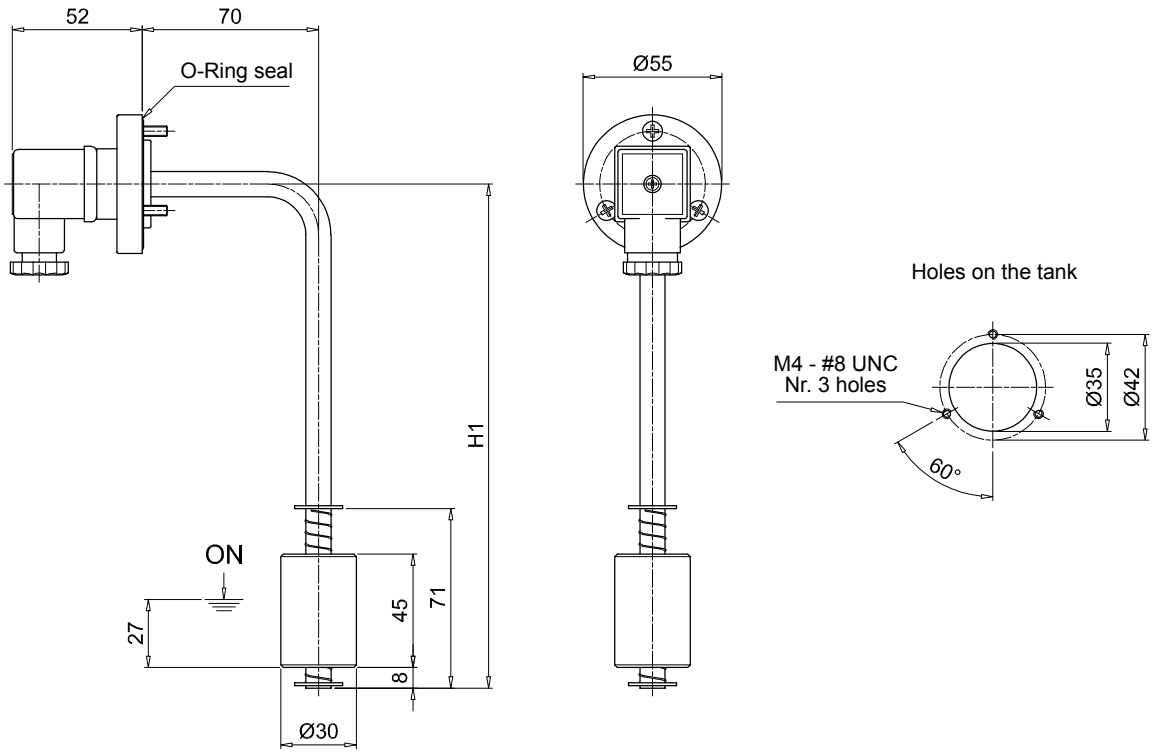
Seals
A NBR

Connections
F Nr. 3 holes flange

Electrical connection
S EN 175301-803 connector

Execution
P01 MP Filtri standard
Pxx Customized

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



Note: for installation onto OB Cleaning covers see page 147

Technical data

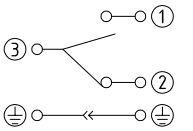
Electrical Oil Level Indicators

LET 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 integrated thermostat allows to get a remote monitoring of the temperature.

Available features:
- G 1" male threaded or flanged connections
- Adjustable size on request, to meet every size of tank
- Floating monitor for oil level check

Common applications:
- Hydraulic systems
- Mobile machines
- Industrial equipment

Electrical symbol:



1: Thermostat
2: Float
3: Common

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

LET A 200	0.20 kg
LET A 300	0.23 kg
LET A 400	0.28 kg

Designation & Ordering code

COMPLETE ELECTRICAL OIL LEVEL INDICATOR

Configuration example :	LET	A	300	1	A	1	A	F	S	50	P01

Series
LET

Tube material
A Brass

Length
200 | **300** | **400**

Number of floats
1 Nr. 1 float

Float material
A Polyamide foam

Electrical switch
1 N.C. (Normally Closed)

Seals
A NBR

Connections
G G 1"
F Nr. 3 holes flange

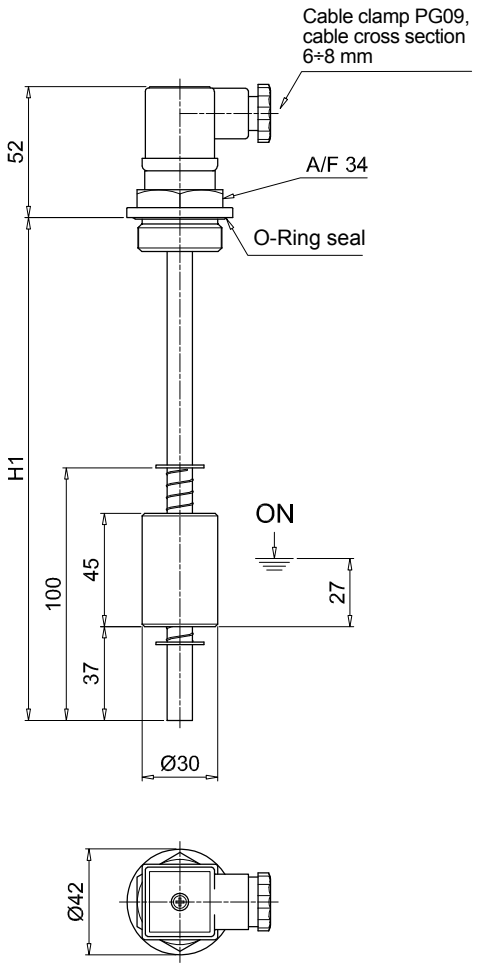
Electrical connection
S EN 175301-803 connector

Thermostat setting
50 50°C N.O. (Normally Open)

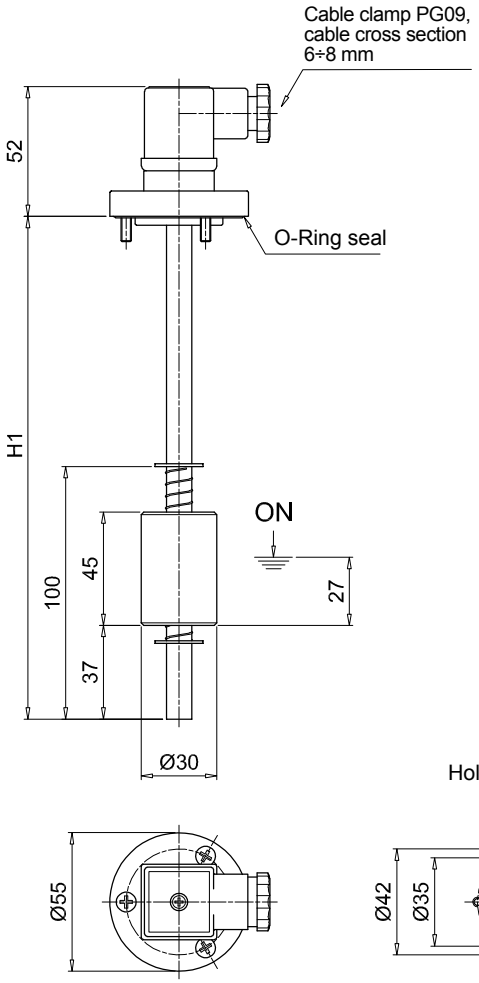
Execution
P01 MP Filtri standard
Pxx Customized

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

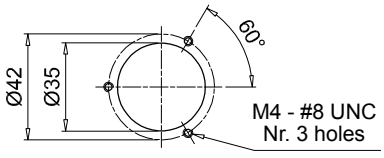
Connection “G”



Connection “F”



Holes on the tank



LEM GENERAL INFORMATION

Technical data

Electrical Oil Level Indicators

LEM 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.

Available features:

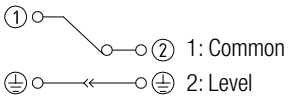
- Flanged connections
- Adjustable size to meet every size of tank
- Floating monitor for oil level check
- Integrated thermostat, to get a remote monitoring of the temperature

Common applications:

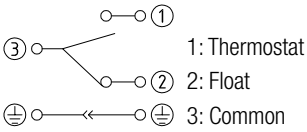
- Hydraulic systems
- Mobile machines
- Industrial equipment

Electrical symbol:

LEM without thermostat



LEM with thermostat



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
- Float contact: N.C. reed, N.O. (on request)
- Thermostat contact: N.O., N.C. (on request)

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

LEM 0.406 kg

Designation & Ordering code

COMPLETE ELECTRICAL OIL LEVEL INDICATOR

Configuration example :	LEM	A	1000	1	A	1	A	F	S	60	P01

Series
LEM

Tube material
A Brass

Length
1000

Number of floats
1 Nr. 1 float

Float material
A Polyamide foam

Electrical switch
1 N.C. (Normally Closed)

Seals
A NBR

Connections
F Nr. 3 holes flange

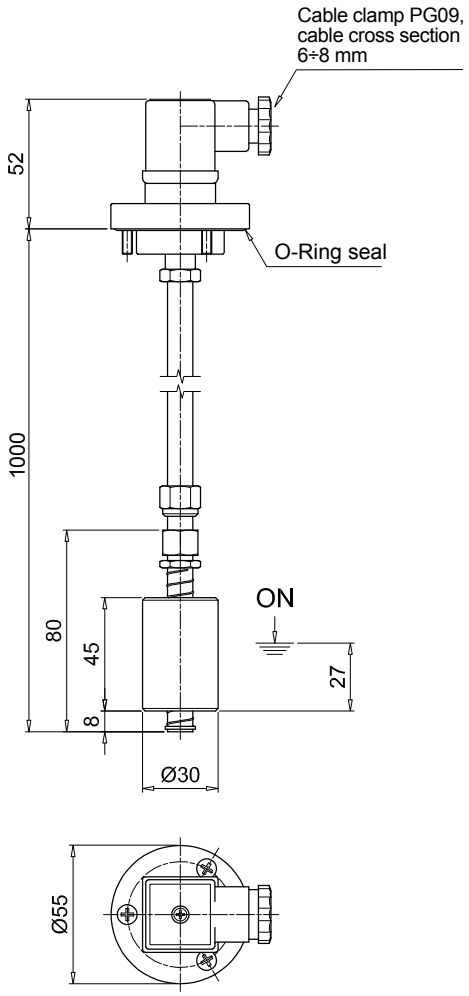
Electrical connection
S EN 175301-803 connector

Thermostat setting
00 Without thermostat
60 60°C N.O. (Normally Open)

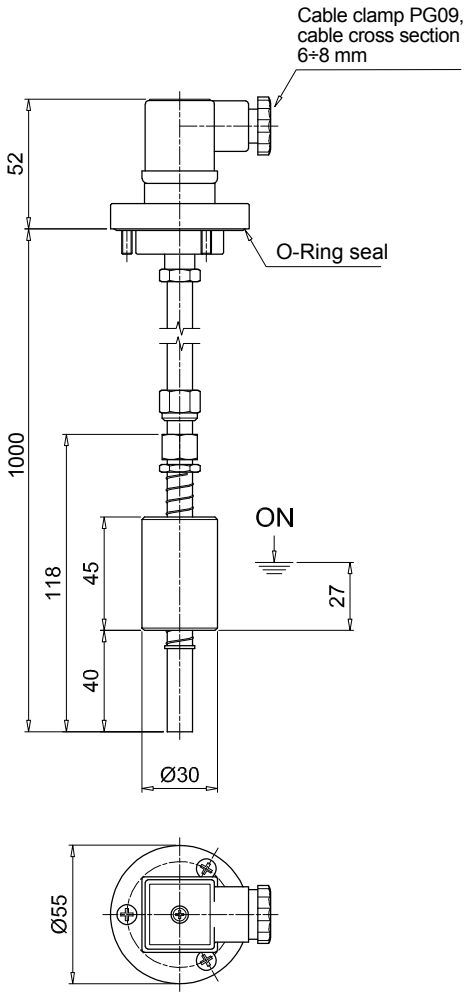
Execution
P01 MP Filtri standard
Pxx Customized

LEM

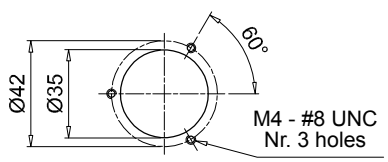
Without thermostat



With thermostat



Holes on the tank



Technical data

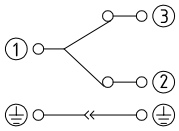
Electrical Oil Level Indicators

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:



1: Common
2: Min. level
3: Max. level

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

	LEU	B	2	B	1	A	F	S	P01
Configuration example :									

Series
LEU

Tube material
B AISI 304

Number of floats
2 Nr. 2 floats

Float material
B NBR

Electrical switch
1 N.C. (Normally Closed)

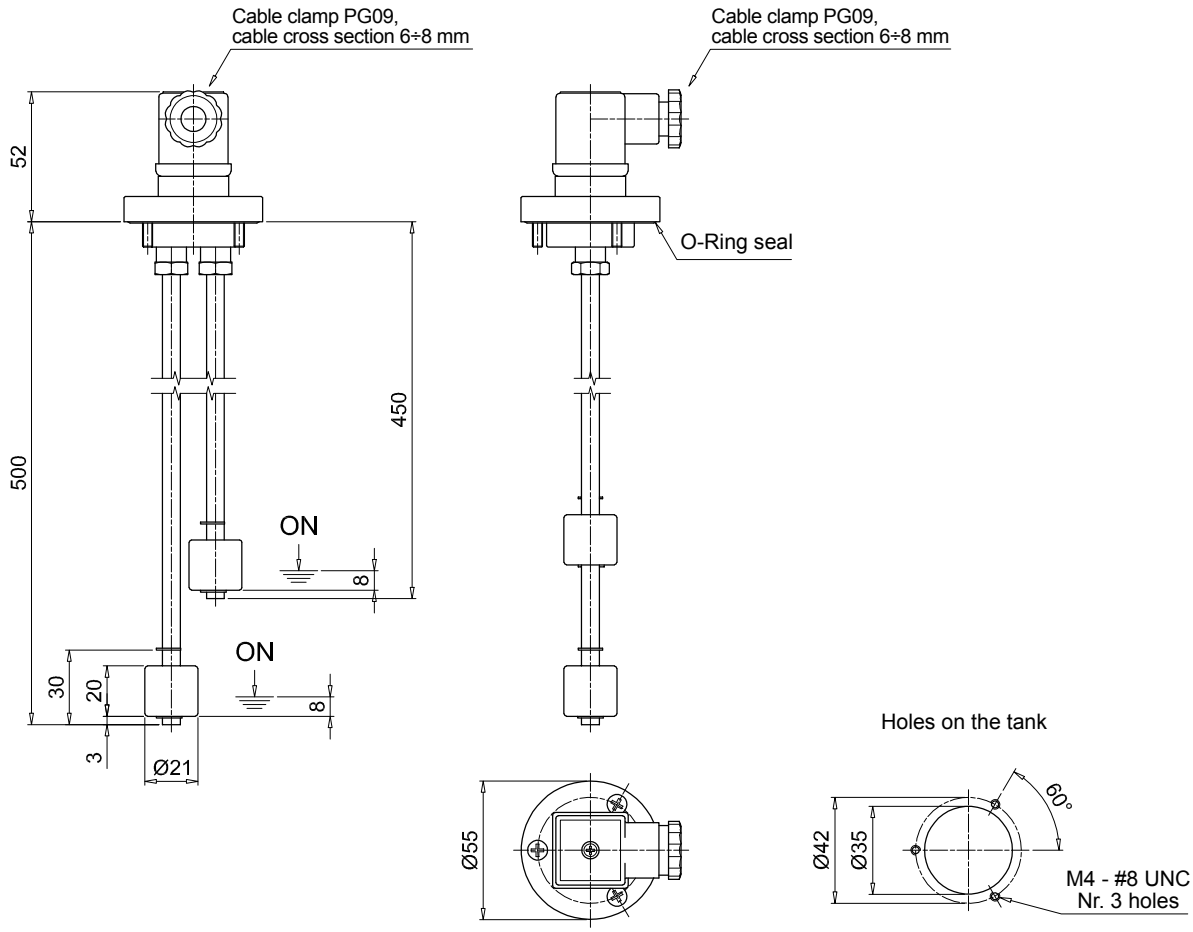
Seals
A NBR

Connections
F Nr. 3 holes flange

Electrical connection
S EN 175301-803 connector

Execution
P01 MP Filtri standard
Pxx Customized

LEU


Cable clamp PG09,
cable cross section 6÷8 mm
52
500
450
ON
8
ON
8
30
20
3
Ø21
Cable clamp PG09,
cable cross section 6÷8 mm
O-Ring seal
Ø55
Holes on the tank
60°
Ø42
Ø35
M4 - #8 UNC
Nr. 3 holes

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. 118

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

Configuration example : LVK | 20 | A | M12 | 1 | T | 5 | P01

Series
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	Connection M12
S	Standard	•	•
T	With thermostat	-	•
P	With PT100 sensor	-	•

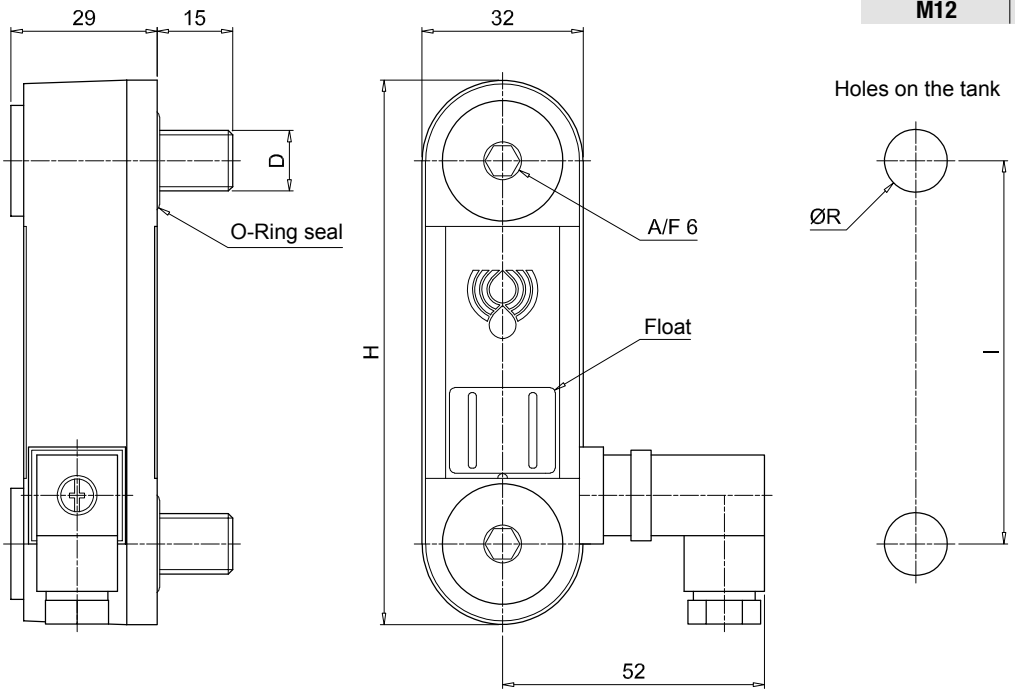
Thermostat setting		Version S	Version T	Version P
S	Standard (no setting)	•		•
1	50°C N.O. (Normally Open)	-	•	-
2	60°C N.O. (Normally Open)	-	•	-
3	70°C N.O. (Normally Open)	-	•	-
5	50°C N.C. (Normally Closed)	-	•	-
6	60°C N.C. (Normally Closed)	-	•	-
7	70°C N.C. (Normally Closed)	-	•	-

Execution
P01 MP Filtri standard
Pxx Customized

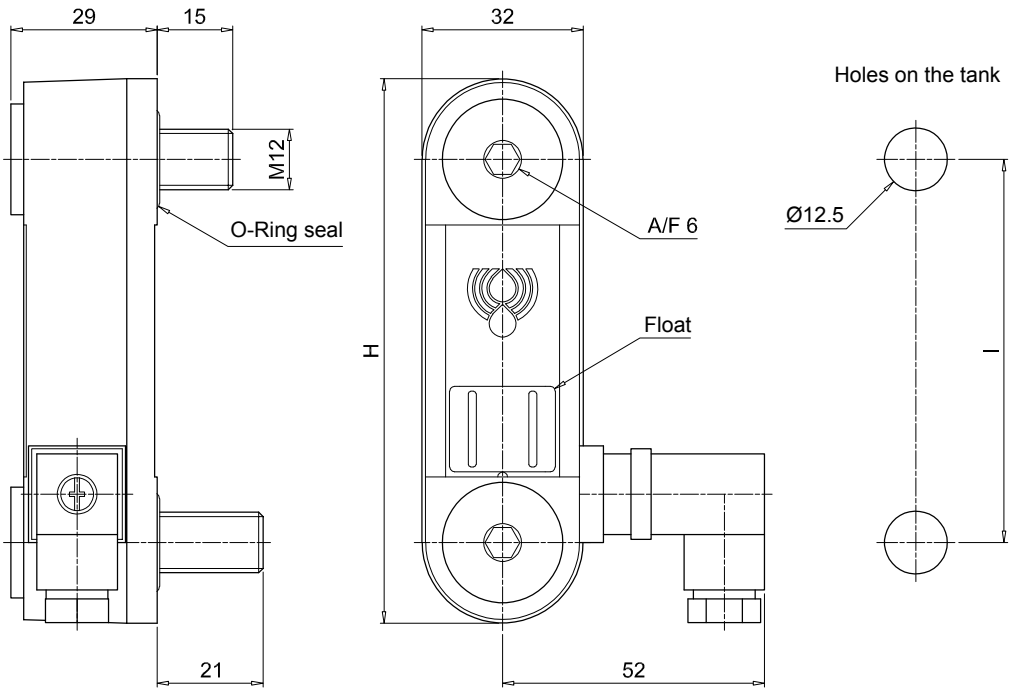
LVK		
Size	**H [mm]**	**I [mm]**
10	108	76
20	159	127
30	286	254

Connections	**D [mm]**	**ØR [mm]**
M10	M10	10.5
M12	M12	12.5

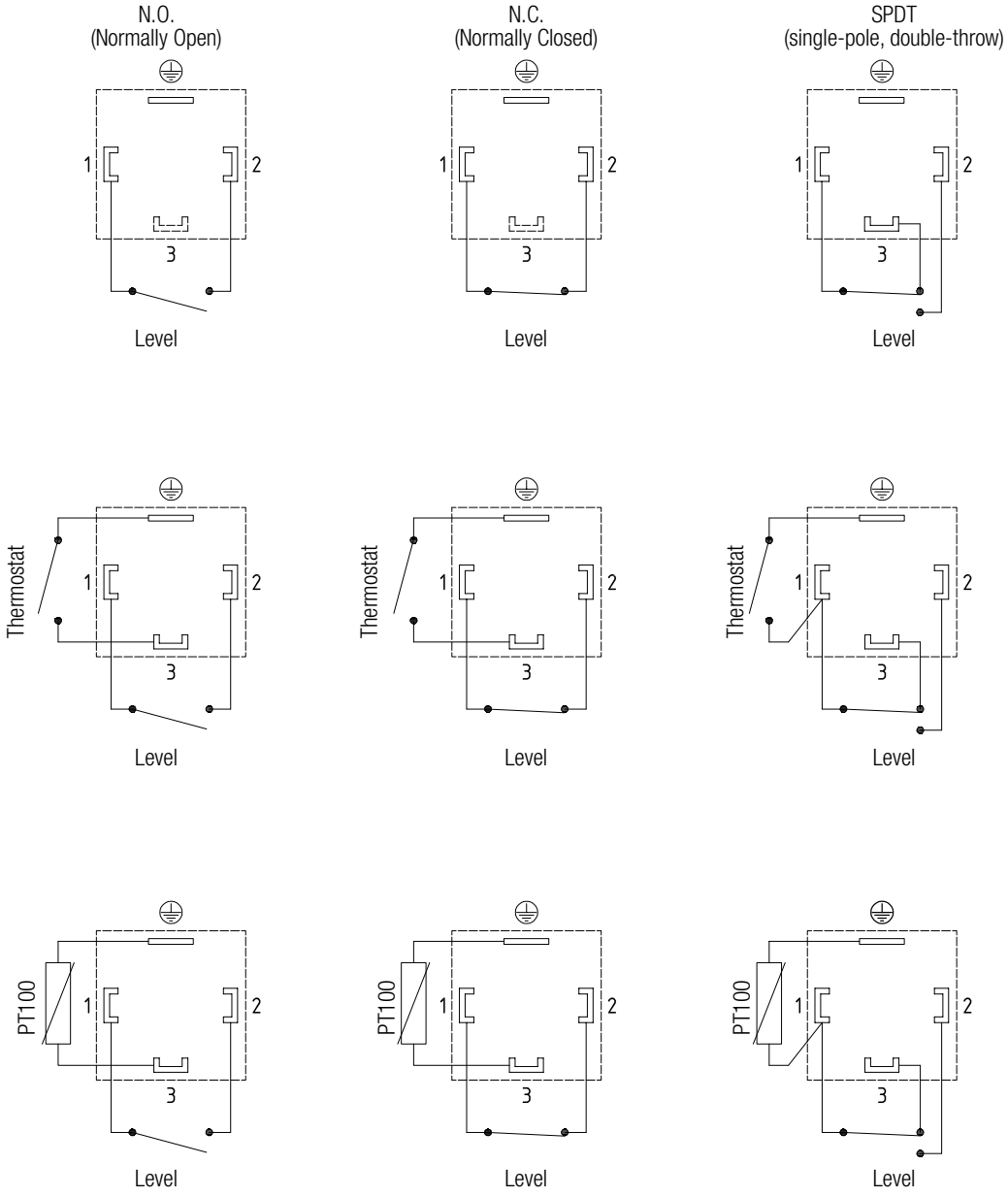
Without thermostat



With thermostat



Electrical symbols



WORLDWIDE NETWORK

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UNITED ARAB EMIRATES • UNITED KINGDOM • USA

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