LEN - LEG - LET - LEM - LEU series

Electrical oil level indicators
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

<table>
<thead>
<tr>
<th>COMPLETE ELECTRICAL OIL LEVEL INDICATORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration example: LEN A 350 2 A 1 A G S P01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Series</th>
<th>LEN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube material</td>
<td>A Brass</td>
</tr>
<tr>
<td>Length</td>
<td>150 200 250 350 400 500</td>
</tr>
<tr>
<td>Number of floats</td>
<td>150 200 250 350 400 500</td>
</tr>
<tr>
<td>1 NR. 1 float</td>
<td>• • • • • •</td>
</tr>
<tr>
<td>2 NR. 2 floats</td>
<td>• • • • • •</td>
</tr>
<tr>
<td>Float material</td>
<td>A Polyamide foam</td>
</tr>
<tr>
<td>Electrical switch</td>
<td>1 N.C. (Normally Closed)</td>
</tr>
<tr>
<td>Seals</td>
<td>A NBR</td>
</tr>
<tr>
<td>Connections</td>
<td>G G 1”</td>
</tr>
<tr>
<td>F Nr. 3 holes flange</td>
<td></td>
</tr>
<tr>
<td>Electrical connection</td>
<td>S EN 175301-803 connector</td>
</tr>
<tr>
<td>Execution</td>
<td>P01 MP Filtri standard Pxx Customized</td>
</tr>
</tbody>
</table>
**Dimensions**

**LEN**

<table>
<thead>
<tr>
<th>Nr. 1 float</th>
<th>Length</th>
<th>H1 [mm]</th>
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</thead>
<tbody>
<tr>
<td>150</td>
<td>150</td>
<td></td>
</tr>
<tr>
<td>200</td>
<td>200</td>
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<tr>
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<td>500</td>
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**LEN**

<table>
<thead>
<tr>
<th>Nr. 2 floats</th>
<th>Length</th>
<th>H1 [mm]</th>
<th>H2 [mm]</th>
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</thead>
<tbody>
<tr>
<td>200</td>
<td>200</td>
<td>95</td>
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</tr>
<tr>
<td>250</td>
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<td>105</td>
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<td>350</td>
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<td>115</td>
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</tr>
<tr>
<td>500</td>
<td>500</td>
<td>125</td>
<td></td>
</tr>
</tbody>
</table>

Connection “G”

- Cable clamp PG09, cable cross section 6÷8 mm
- A/F 34
- O-Ring seal

Connection “F”

- Cable clamp PG09, cable cross section 6÷8 mm
- A/F 34
- O-Ring seal

Holes on the tank

- Ø30
- Ø42

Holes on the tank

- M4 - #8 UNC
- Nr. 3 holes

Electrical Oil Level Indicator

- Ø30
- Ø55
- Ø42
- Ø35
**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:**

![Electrical symbol](image)

1: Common
2: Level

**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**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LEG A 102</td>
<td>0.19 kg</td>
</tr>
<tr>
<td>LEG A 200</td>
<td>0.22 kg</td>
</tr>
</tbody>
</table>

**Designation & Ordering code**

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series</td>
<td>LEG</td>
</tr>
<tr>
<td>Tube material</td>
<td>Brass</td>
</tr>
<tr>
<td>Length</td>
<td>102 200</td>
</tr>
<tr>
<td>Number of floats</td>
<td>1</td>
</tr>
<tr>
<td>Float material</td>
<td>Polyamide foam</td>
</tr>
<tr>
<td>Electrical switch</td>
<td>N.C. (Normally Closed)</td>
</tr>
<tr>
<td>Seals</td>
<td>NBR</td>
</tr>
<tr>
<td>Connections</td>
<td>Nr. 3 holes flange</td>
</tr>
<tr>
<td>Electrical connection</td>
<td>EN 175301-803 connector</td>
</tr>
</tbody>
</table>

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

**Execution**

- P01 MP Filtri standard
- Pxx Customized
Dimensions

<table>
<thead>
<tr>
<th>Size</th>
<th>H1 (mm)</th>
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<tbody>
<tr>
<td>LEG 102</td>
<td>103</td>
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<tr>
<td>LEG 200</td>
<td>200</td>
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</tbody>
</table>

Note: for installation onto OB Cleaning covers see page 147
**LET**

### GENERAL INFORMATION

**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:**

![Electrical Symbol](image)

**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

<table>
<thead>
<tr>
<th>COMPLETE ELECTRICAL OIL LEVEL INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Configuration example:</td>
</tr>
<tr>
<td>LET A 300 1 1 FA S 50 P01</td>
</tr>
</tbody>
</table>

- **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

- **Thermmostat setting**
  - 50: 50°C N.O. (Normally Open)
- **Execution**
  - P01: MP Filtri standard
  - Pxx: Customized
### LET Dimensions

<table>
<thead>
<tr>
<th>Length</th>
<th>H1 [mm]</th>
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</thead>
<tbody>
<tr>
<td>200</td>
<td>200</td>
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<tr>
<td>300</td>
<td>300</td>
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<tr>
<td>400</td>
<td>400</td>
</tr>
</tbody>
</table>

#### Connection “G”
- Cable clamp PG09, cable cross section 6÷8 mm
- O-Ring seal

#### Connection “F”
- Cable clamp PG09, cable cross section 6÷8 mm
- O-Ring seal

**Holes on the tank**
- M4 - #8 UNC
- Nr. 3 holes

**Electrical Oil Level Indicator**
- Connection “G”
- Connection “F”

**Cable clamp PG09, cable cross section 6÷8 mm**
- O-Ring seal
**Technical data**

### 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

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**Designation & Ordering code**

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<th>A</th>
<th>1</th>
<th>A</th>
<th>F</th>
<th>S</th>
<th>60</th>
<th>P01</th>
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<td><strong>Series</strong></td>
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<td><strong>Tube material</strong></td>
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<tr>
<td>N.C. (Normally Closed)</td>
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<tr>
<td><strong>Seals</strong></td>
<td>A</td>
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<td>NBR</td>
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<tr>
<td><strong>Connections</strong></td>
<td>F</td>
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<td></td>
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</tr>
<tr>
<td>Nr. 3 holes flange</td>
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<td><strong>Electrical connection</strong></td>
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<tr>
<td>EN 175301-803 connector</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Length</th>
<th>H1 [mm]</th>
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</thead>
<tbody>
<tr>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>1000</td>
<td>1000</td>
</tr>
</tbody>
</table>

Without thermostat

- Cable clamp PG09, cable cross section 6-8 mm
- O-Ring seal
- Holes on the tank

With thermostat

- Cable clamp PG09, cable cross section 6-8 mm
- O-Ring seal
- Holes on the tank

Electrical Oil Level Indicator

- M4 - #8 UNC
- Nr. 3 holes
**Designation & Ordering code**

<table>
<thead>
<tr>
<th>COMPLETE ELECTRICAL OIL LEVEL INDICATOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
</tr>
<tr>
<td><strong>LEU</strong></td>
</tr>
<tr>
<td><strong>Number of floats</strong></td>
</tr>
<tr>
<td><strong>Float material</strong></td>
</tr>
<tr>
<td><strong>Electrical switch</strong></td>
</tr>
<tr>
<td><strong>Seals</strong></td>
</tr>
<tr>
<td><strong>Connections</strong></td>
</tr>
<tr>
<td><strong>Electrical connection</strong></td>
</tr>
</tbody>
</table>

**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

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

**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

**Materials**
- From -15 °C to + 80 °C

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

**Connections**
F Nr. 3 holes flange

**Electrical connection**
S EN 175301-803 connector

**Seals**
A NBR

**Electrical symbol:**

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

Cable clamp PG09, cable cross section 6÷8 mm

O-Ring seal

Holes on the tank

M4 - #8 UNC
Nr. 3 holes

Dimensions

LEU