



- specially designed for the food and beverage industry
- non-adhesive
- overload resistance (for short-time)  
max. temp.: 130 °C  
max. pressure: 16 bar  
CIP-able
- materials suitable for food and beverage
- no on-site adjustment necessary
- AS-interface-bus-version

**Response sensitivity. 0.1 µs/cm**

G□A	□" NPT
LPL 0.1-G2S-E2	LPL 0.1-N2S-E2
LPL 0.1-G2S-E3	LPL 0.1-N2S-E3
LPL 0.1-G3S-E2	LPL 0.1-N3S-E2
LPL 0.1-G3S-E3	LPL 0.1-N3S-E3
LPL 0.1-G2S-B3	LPL 0.1-N2S-B3
LPL 0.1-G3S-B3	LPL 0.1-N3S-B3

**Response sensitivity. 100 µs/cm**

G□A	□" NPT
LPL 100-G2S-E2	LPL 100-N2S-E2
LPL 100-G2S-E3	LPL 100-N2S-E3
LPL 100-G3S-E2	LPL 100-N3S-E2
LPL 100-G3S-E3	LPL 100-N3S-E3

**Function principle**

The measuring electrode of the probe creates a field to the vessel wall, that will be changed by the liquid medium. The internal electronics detects the change and generates the switching signal. The special construction of the probe and the smart evaluation unit provide fully reproducible switching points even with adhesive media.

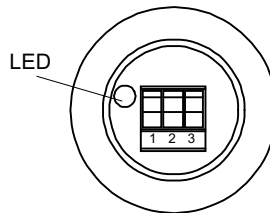
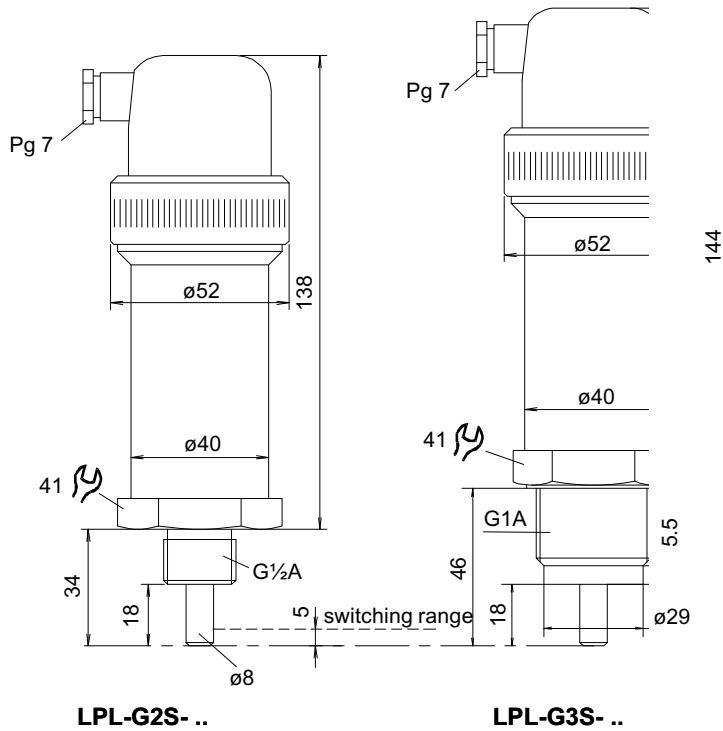
**Mounting instruction**

The mounting position does not matter for limit value detection. For dry-run protection the probe has to be mounted from the top into the controlled pipeline. This is also true for pipes with beverages that should be protected from falling levels.

**Special over load resistance**

The used materials allow for a short time (< 30 min) pressures (< 16 bar) and temperatures (≈130 °C). Those are common in the food industry during cleaning processes of the system.

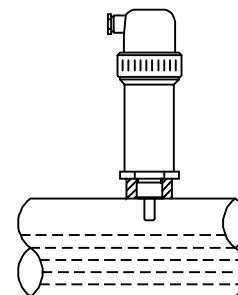
**Dimensions / versions**



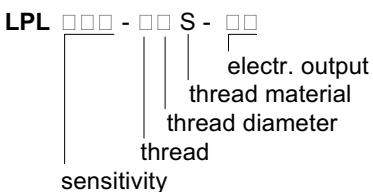
**Please note**

In the mounted position the electrode has to stand free into the pipe.

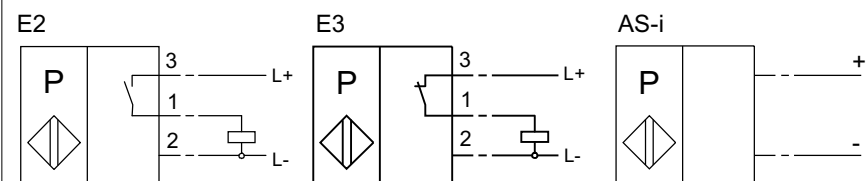
**The minimum distance to neighbouring threads resp. pipeline elements has to be ≥ 5 mm.**



**Types**

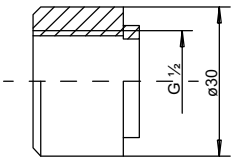


**Connection**



Date of issue 26.06.97



<b>Technical data</b>	
<b>Response sensitivity</b> LPL 0.1 LPL 100	conductance of the liquid $\geq 0.1\mu\text{S} / \text{cm}$ conductance of the liquid $\geq 100\mu\text{S} / \text{cm}$ , prefed for KEG-systems
<b>Supply</b> Supply voltage $U_B$ Load current $J_L$	DC 24 V ( $\pm 25\%$ ) $\leq 30 \text{ mA}$
<b>Output</b> Switching function Current Short-circuit current	pnp (positive switched) make switch / break switch max. 500 mA , short-circuit proof $\leq 1.5 \text{ A}$
<b>Indicator</b> Switching state	LED, red
<b>Environmental conditions</b> Temperature	$+5 \text{ }^\circ\text{C} \dots +50 \text{ }^\circ\text{C}$ (278 K ... 323 K)
<b>Process conditions</b> Temperature permanent short-time (max.30 min.) Pressure	$+5 \text{ }^\circ\text{C} \dots +85 \text{ }^\circ\text{C}$ (278 K ... 358 K) $\leq 130 \text{ }^\circ\text{C}$ (393 K) $\leq 16 \text{ bar}$
<b>Electrical connection</b> Terminal plugs Cable glands	max. 2.5 mm <sup>2</sup> plastic, Pg 7
<b>Process connection</b> Electrode LPL□□-G2S LPL□□-G3S LPL□□-N2S LPL□□-N3S	PVDF G $\frac{1}{2}$ A, stainless steel 304 / 304 S 15 G1A, stainless steel 304 / 304 S 15 $\frac{1}{2}$ " NPT, stainless steel 304 / 304 S 15 1" NPT, stainless steel 304 / 304 S 15
<b>Protection class acc. to DIN 40 050</b>	IP 67
<b>Housing material</b> Terminal box Thread	plastics, transparent PG 7
<b>AS-Interface-Version</b> Supply Indicators operative Switching state	2-wire-lead to the master  LED, green LED, red
<b>Accessories</b> LPL-Z71	Coupling sleeve, thread G $\frac{1}{2}$ A, stainless steel   <b>LPL-Z71</b>

This device may be used with any circuit, if this circuit complies with the connection values of the switching element.