

# IMPRESS

SENSORS & SYSTEMS

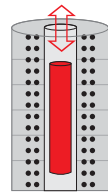
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Pressure - Temperature - Level - Flow - Analytical - Control - Indication - Data logging

# More Precision.

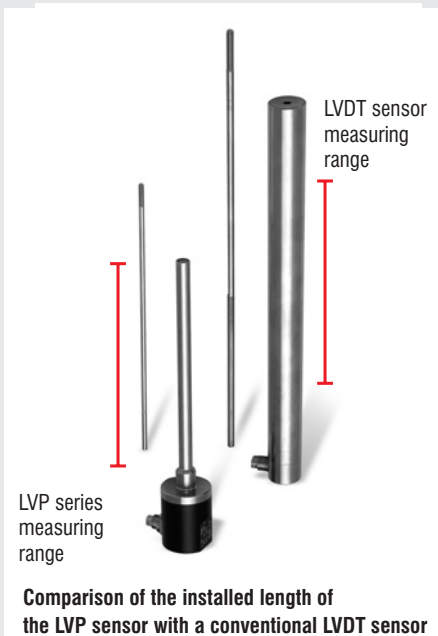
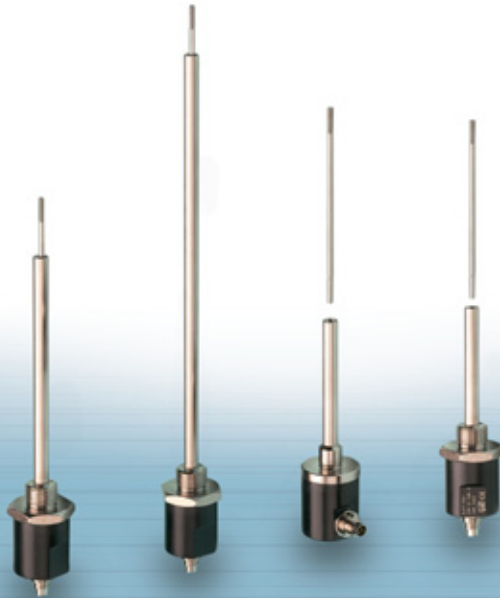
**indu**SENSOR

Linear inductive displacement sensors



## Series LVP DC: Inductive sensors with measuring plunger and integrated electronics

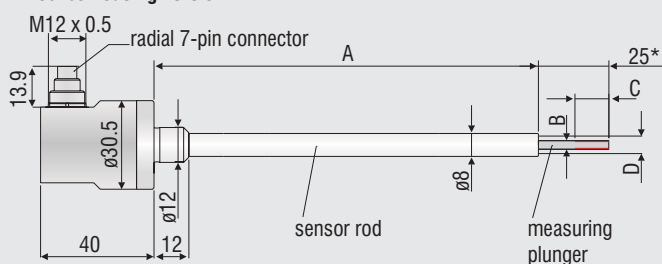
**No wear and no maintenance**  
**Integrated microelectronics**  
**Compact design - short installed length**  
**Shielded against EMI**  
**For use in difficult ambient conditions**



### Comparison of the installed length of the LVP sensor with a conventional LVDT sensor

An important advantage of the LVP measuring technique lies in the short length of the installed sensor. This difference in lengths becomes clear in a direct comparison with an LVDT sensor.

#### LVP series housing version -ZA-



\* measuring plunger start position  $I_{out} = 4 \text{ mA}$

Measuring range	A	B	C	D
50	77	M2	10	4
100	138	M3	12	4
200	261	M3	12	4

All data in mm

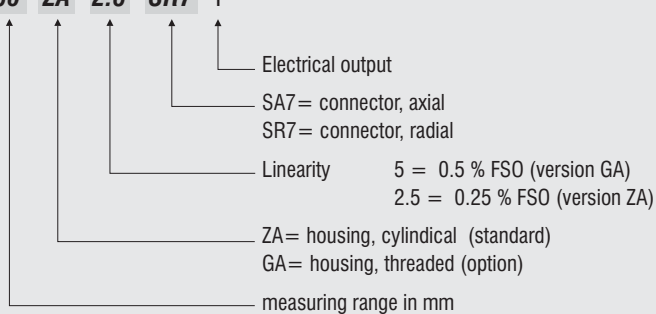
Model	LVP-50	LVP-100	LVP-200
Measuring range	50 mm	100 mm	200 mm
Linearity	standard $\pm 0.5$ % FSO	0.25 mm	0.5 mm
	option $\pm 0.25$ % FSO	0.125 mm	0.25 mm
Resolution	$< 0.03$ % FSO	0.015 mm	0.03 mm
Temperature range	-40 °C ... +85 °C		
Temperature stability	zero	$\pm 50$ ppm / °C	
	sensitivity	$\pm 150$ ppm / °C	
Frequency response (-3 dB)	300 Hz		
Output	4 - 20 mA		
Output load	$\leq 500$ Ohm		
Power supply	18 - 30 VDC		
Current consumption	max. 40 mA		
Protection class	IP 67		
Electromagnetic compatibility (EMC)	EN 50 081-2 spurious emission EN 50 082-2 interference immunity		
Shock <sup>1</sup>	IEC 68-2-29	40 g, 3000 shocks / axis; 100 g radial, 300 g axial	
	IEC 68-2-27		
Vibration	IEC 68-2-6	5 Hz ... 44 Hz $\pm 2.5$ mm; 44 Hz ... 500 Hz $\pm 20$ g	

FSO = Full Scale Output

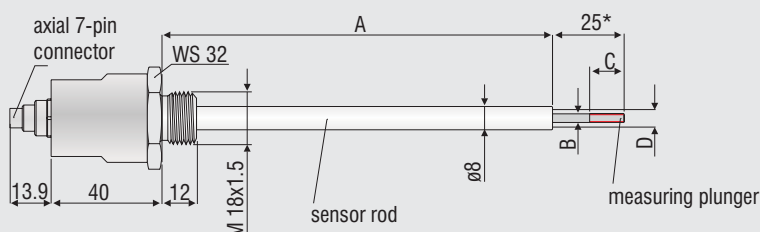
1) Half sinusoid 6 ms

## Article

LVP - **50** - **ZA** - **2.5** - **SR7** - I



## LVP series housing version -GA-



\* measuring plunger start position  $I_{out} = 4$  mA

# More Precision.

## Sensors and systems

for displacement, position and dimension

## Sensors and measurement devices

for non-contact temperature measurement

## Measurement systems

for online/offline quality control