

# IMPRESS

SENSORS & SYSTEMS

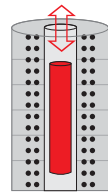
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Pressure - Temperature - Level - Flow - Analytical - Control - Indication - Data logging

# More Precision.

**indu**SENSOR

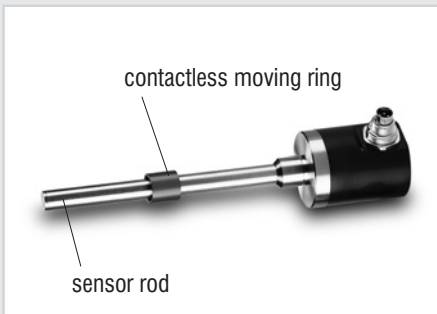
Linear inductive displacement sensors



## VIP series: sensors with measuring ring and integral electronics

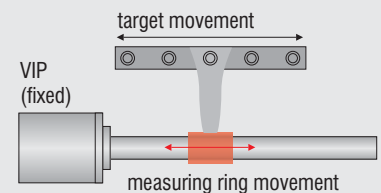


- No wear and no maintenance
- Integrated microelectronics
- Short and compact design
- Rugged encapsulated sensor construction



### Parallel mounting

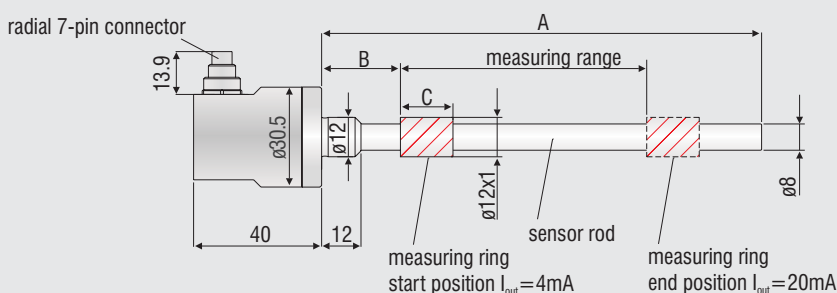
The optimum ratio of measurement range to installed length of the sensor reduces the installation space needed for the VIP series. The parallel connection of the measurement object and measuring ring facilitates completely new construction and installation options. Whereas with conventional sensors with an axial measurement path, the length of the plunger must be added to the actual housing length, with the VIP series only the housing length has to be considered during the design.



### Patented measurement principle

There is no mechanical contact between the measuring element (ring) and the sensor rod. The sensor therefore operates without any wear.

VIP series housing version -ZA-  
Dimensions in mm, not to scale



Measuring range	A	B	C
50	105	24	11.5
100	175	27	22
150	242	30	33

All data in mm.

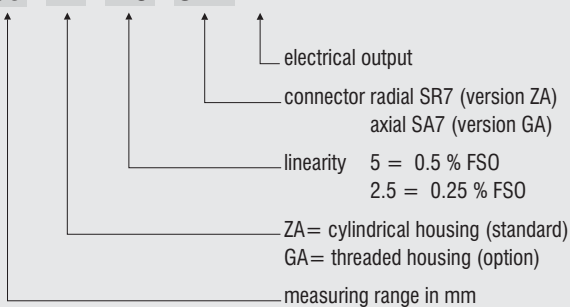
Model	VIP-50	VIP-100	VIP-150
Measuring range	50 mm	100 mm	150 mm
Linearity	standard $\pm 0.5$ % FSO	0.25 mm	0.5 mm
	option $\pm 0.25$ % FSO	0.125 mm	0.25 mm
Resolution	$< 0.03$ % FSO	0.015 mm	0.03 mm
Temperature range	$-40$ °C ... $+85$ °C		
Temperature stability	$\pm 50$ ppm / °C		
	$\pm 150$ ppm / °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>	40 g, 3000 shocks / axis		
	IEC 68-2-27	100 g radial, 300 g axial	
Vibration	5 Hz ... 44 Hz $\pm 2.5$ mm; 44 Hz ... 500 Hz $\pm 20$ g		

FSO = Full Scale Output

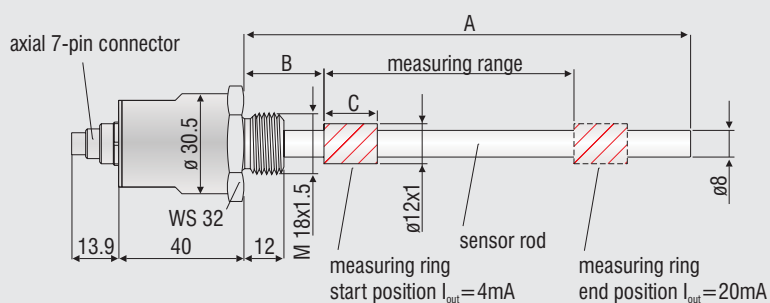
1) Half sinusoid 6 ms

## Article

VIP- 50 - ZA - 2.5 - SR7 - I



VIP series housing version -GA-  
 Dimensions in mm, not to scale



# 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