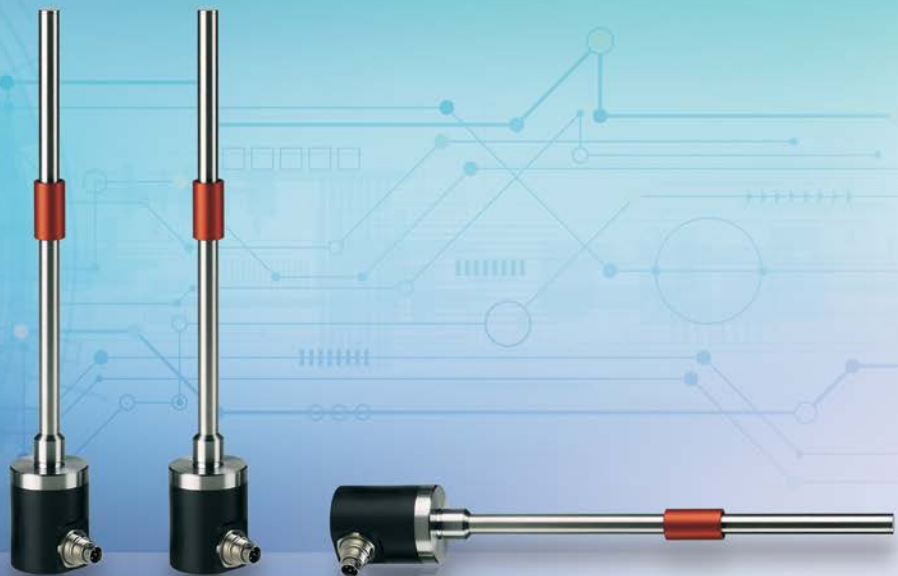




# More Precision

indu**SENSOR** VIP // Displacement sensor with ring & integrated controller

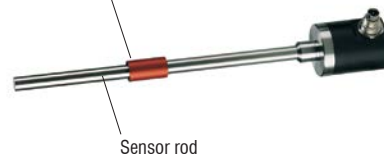




- *Wear-free and maintenance-free*
- *Linearity  $\pm 0.25\%$  FSO*
- *Integrated microcontroller*
- *Compact design - short installation length*
- *Lateral measurements possible*

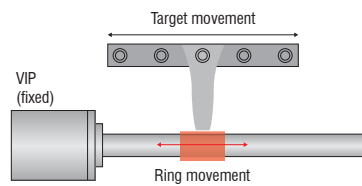
The induSENSOR VIP sensor works with a freely movable ring. There is no mechanical contact between the measuring element (ring) and the sensor rod. The sensor therefore operates without any wear.

Freely movable measuring ring



**Parallel installation**

The optimum ratio of measuring range to installed length of the sensor reduces the installation space needed for the sensor. The parallel connection of measuring object and ring enables various design and installation possibilities. With induSENSOR VIP sensors, you only have to take into account the housing length only during the design, whereas conventional sensors with axial measurement path require you to add the length of the plunger to the housing length. The IP67 protection class makes these sensors ideal for operation in harsh industrial environments.



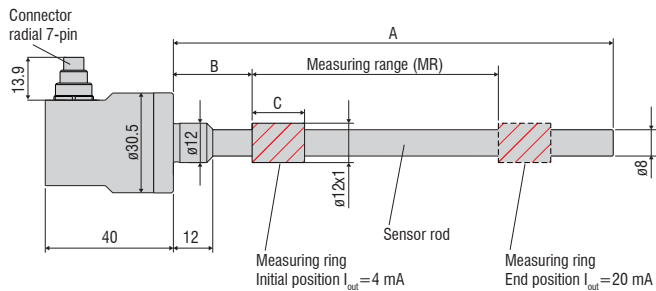
Model		VIP-100
Measuring range		100 mm
Resolution	$\leq 0.05\%$ FSO	0.05 mm
Frequency response (-3dB)		300 Hz
Linearity	Standard $\leq \pm 0.5\%$ FSO	$\leq \pm 0.5$ mm
	Option $\leq \pm 0.25\%$ FSO	$\leq \pm 0.25$ mm
Temperature stability <sup>1)</sup>		$\pm 250$ ppm FSO / K
Supply voltage		18 ... 30 VDC
Max. current consumption		40 mA
Analog output		4 ... 20 mA (load 500 Ohm)
Connection		7-pin M9 screw/plug connection (Binder); radial cable outlet; axial cable outlet on request (see accessories for connection cable)
Temperature range	Storage	-40 ... +85 °C
	Operation	-40 ... +85 °C
Shock (DIN EN 60068-2-27)		40 g / 6 ms in 6 axes, 3000 shocks each
Vibration (DIN EN 60068-2-6)		$\pm 2.5$ mm / 10 ... 44 Hz in 2 axes, 10 cycles each $\pm 20$ g / 44 ... 500 Hz, in 2 axes, 10 cycles each
Protection class (DIN EN 60529)		IP67

FSO = Full Scale Output

<sup>1)</sup> Determined according to box method over the entire temperature range; a reduction to 20 °C steps results in  $\pm 500$  ppm / K

#### VIP Housing Variant -ZA-

Dimensions in mm, not to scale



#### Article designation

VIP-	100-	ZA-	2,5-	SR7-	I
					Current output
					SR7= radial plug (ZA housing variant)
					Linearity: 5 = 0.5 % FSO 2.5 = 0.25 % FSO
					ZA= cylinder flange (standard)
					Measuring range in mm

Measuring range	A	B	C
100	175	27	22

## Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



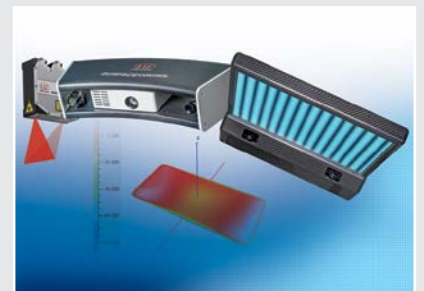
Measuring and inspection systems for metal strips, plastics and rubber



Optical micrometers and fiber optics, measuring and test amplifiers



Color recognition sensors, LED analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection