



# More Precision

**induSENSOR** // Linear inductive displacement sensors





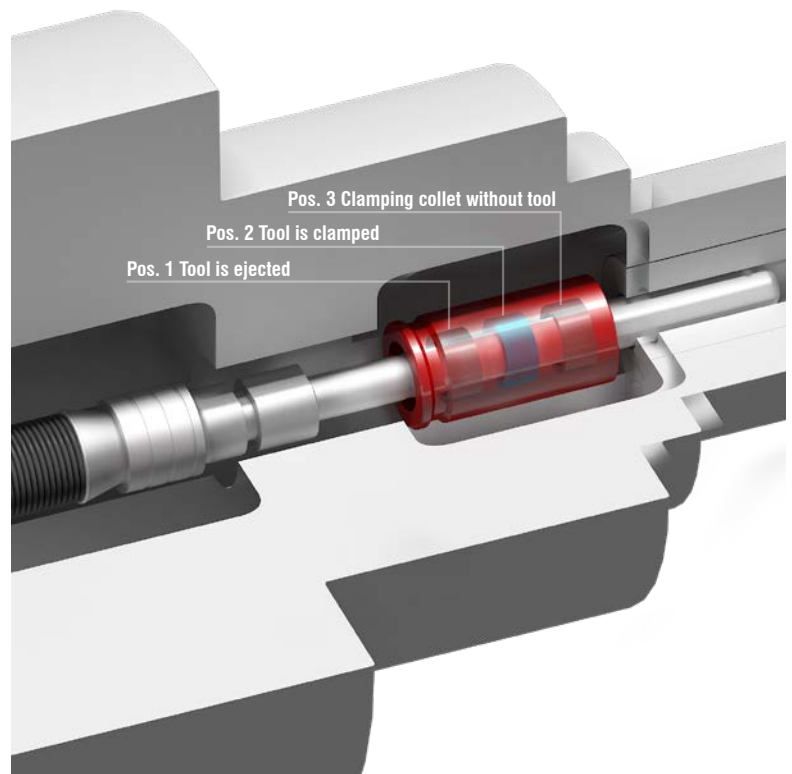
- Compact design
- High ambient temperatures
- High temperature stability
- High dynamics

To monitor the clamping position in machine tools, analog LVP sensors from Micro-Epsilon are used.

The cylindrical sensor is integrated into the release device and directly measures the clamping stroke of the drawbar. On the drawbar, a ring is fastened, which acts as the target for the sensor.

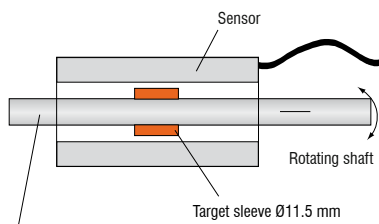
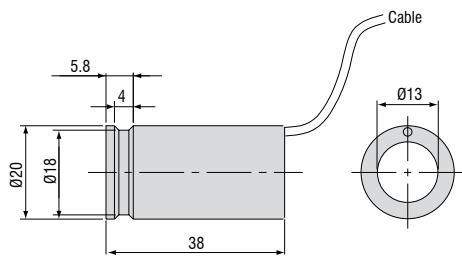
The LVP sensor can be universally used with the most varied types of tool due to an extremely compact sensor design. The sensor supplies an analog signal according to the stroke motion of the drawbar when clamping the tool. Consequently, continuous monitoring is possible without the switching point having to be laboriously set mechanically.

The miniature sensor controller can either be accommodated at the point of measurement or in the control cabinet. Thanks to its high accuracy, the LVP sensor contributes significantly to meeting the ever increasing demands on machine tool precision and availability.



Model	LVP-25-Z20-5-CA-AC
Measuring range	25 mm
Target (included)	article 0482218 for shaft diameter 8 mm
	article 0482219 for shaft diameter 10 mm
Linearity	typical $\pm 1.5\%$ FSO
Sensor housing	stainless steel
Temperature stability (sensor)	$< \pm 0.01\%$ FSO / °C
Temperature range	-40 ... +120 °C (higher on request)
Protection class (sensor)	IP67
Medium	air, oil
Controller	MSC7401 (pages 10 - 11)

FSO = Full Scale Output



Pull rod material  
31CrMoV9V, no. 1.8519.05

## High performance sensors made by Micro-Epsilon



Sensors and systems for displacement and position



Sensors and measurement devices for non-contact temperature measurement



2D/3D profile sensors (laser scanner)



Optical micrometers, fiber optic sensors and fiber optics



Color recognition sensors, LED analyzers and color inline spectrometer



Measurement and inspection systems