

advintec® TCP precision infrared sensors

Available in three sizes (internal dimensions):

- 120 mm x 120 mm
- 240 mm x 240 mm
- 320 mm round

advintec® TCP high precision laser sensors

(internal dimensions): ■ 120 mm x 120 mm

- 120 mm x 120 mm
- 320 mm round

advintec® TCP XS sensor only available in 120 mm x 120 mm infrared

Advantages at a glance

- Automatic absolute calculation of robotic tools and fixtures
- Ease of commissioning and use
- Simplified Integration
 in the production line due to small footprint
- Robust precision infrared sensor available in three sizes
- Multi-sensor-system
 Connection of additional sensors possible
- Network connection of the calibration system directly to the robot controller, i.e. the calibration procedure takes place in an evaluation unit and transfers correction values to robot controller
- High process reliability
- No additional PC's required
- Logging and data evaluation possible
- Automatic correction of the trajectory

due to wear and tear or tool-replacement

- no failures caused by positioning factors
- 100 % quality assurance

■ Reduction of costs

- Prevents the production of defective parts
- Reduces scrap and rework
- Short setup times









Watch the video

Factory Automation

www. leoni-factory-automation. com

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in LEONI Factory Automation

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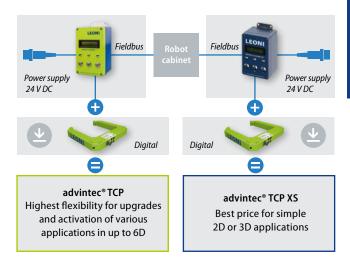
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The Quality Connection



advintec® TCP & advintec® TCP XS Our calibration systems



The challenge

Continually securing the correct operating position for robotic tools

The solution

The advintec TCP tool calibration system calibrates the tool and fixture in up to six dimensions in the ongoing production process

- Electronic, precise and fast
- Simple application low-cost solution

The tool is automatically corrected by the measured offset and thus always operates at the correct position.

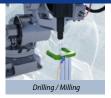
Mobile calibration case for the initial calibration of unknown tools and fixtures (TCP & Base)
Flexible, mobile calibration for unknown tools and fixtures is now also possible with our mobile calibration case. Ideal for use when setting up new production lines.



advintec® TCP & advintec® TCP XS Robotic tool and fixture calibration systems













Important info	rmation:
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advintec® TCP Basic 3D kit can be extended via activation codes for additional applications at a later stage.

advintec® TCP XS can not be extended by activation codes.

	2D Ca	3D Ca	5D Ca	6D Gr Calib	Millin	Ext. x Stud	Ext. z Gluin	Arc W Tand	Cuttin	Initia
TCP XS 2D kit incl. standard IR sensor										
TCP XS 3D kit incl. standard IR sensor										
TCP basic 3D kit incl. standard IR sensor*										
TCP 5D kit incl. standard IR sensor										
TCP 6D kit Gripper incl. standard IR sensor										
TCP 5D kit Milling incl. standard IR sensor										
TCP kit Stud Welding (ext. x-y mode) incl. standard IR sensor*										
TCP 5D kit Gluing – Hook Nozzle incl. standard IR sensor										
TCP kit Arc Welding – Tandem Torch incl. standard IR sensor*										
TCP kit Cutting Tool Blades incl. standard IR sensor										
TCP kit Initial Tool Calculation – "all in" incl. standard IR sensor										
TCP kit Automotive Body in White incl. standard IR sensor										
TCP kit Automotive Powertrain incl. standard IR sensor										
TCP kit Automotive Paint Shop incl. standard IR sensor										

^{*} Upgrade to 5D possible via additional activation code