

# PIN INSPECTION

CONTACTLESS – MULTIDIMENSIONAL QUALITY CONTROL SYSTEMS  
COVERING A WIDE RANGE OF PIN INSPECTION APPLICATIONS

Quality control systems

**SICK**  
Sensor Intelligence.

Digitalization and electrification in industry, in private life and in the mobility sector, leads to high demand for reliable, high-quality pin connectors and the automated manufacture thereof. Targeted quality control fosters sustainable and reliable production. Specifically, pin connectors for demanding installation situations and security-related applications require bent, damaged, missing or incorrect pins to be recognized in order to avoid production losses or even claims due to faulty pins.

The quality control systems Pinspector 2D and Pinspector 3D from SICK are specially designed to check pin presence and position on the x, y and z axes, and the coplanarity of pins in a fully automatic and contactless way.



Assures  
consistently high  
product quality



Avoids production  
losses and error-  
related costs

[www.sick.com/Pinspector\\_2D](http://www.sick.com/Pinspector_2D)  
[www.sick.com/Pinspector\\_3D](http://www.sick.com/Pinspector_3D)

# PRECISE AND CONTACTLESS INSPECTION OF PIN CONNECTORS WITH PINSPECTOR 2D AND PINSPECTOR 3D

**+ Precise, fully automatic, non-contact measurement**

**Use of streaming camera Ranger3 and configurable 2D camera InspectorP**

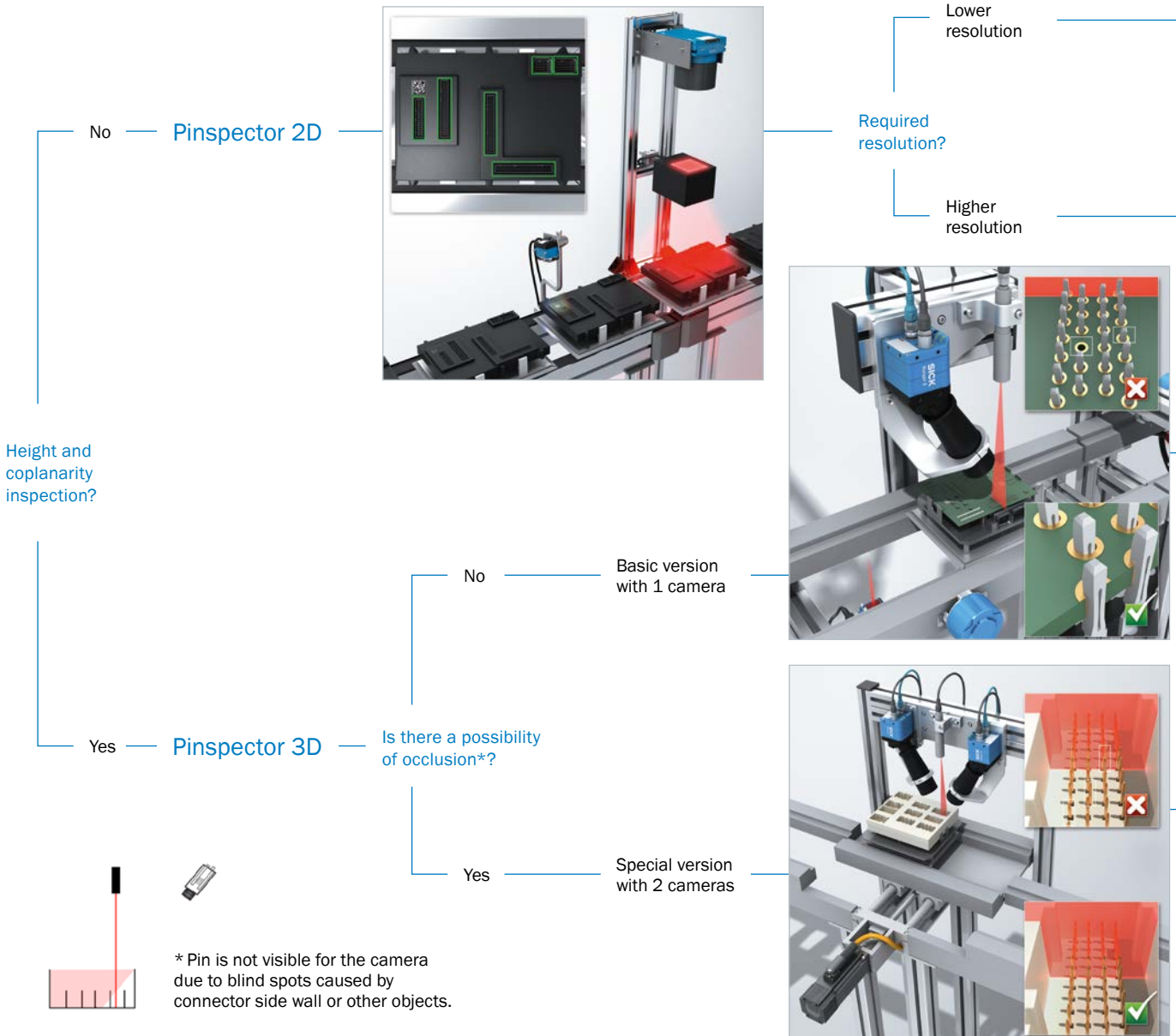
- Fast and accurate control of x, y and z pin position in tolerance range
- Check whether all expected pins are present and in correct position
- Verification of multiple regions-of-interest at the same time

**+ Flexible to application-specific requirements**

**Handling of a large number of test objects**

- Highly flexible solution due to availability of various technologies, camera resolutions and geometric configurations
- Easy switching between jobs prevents downtimes

How to select the right product



**+ User-friendly setup and data management**

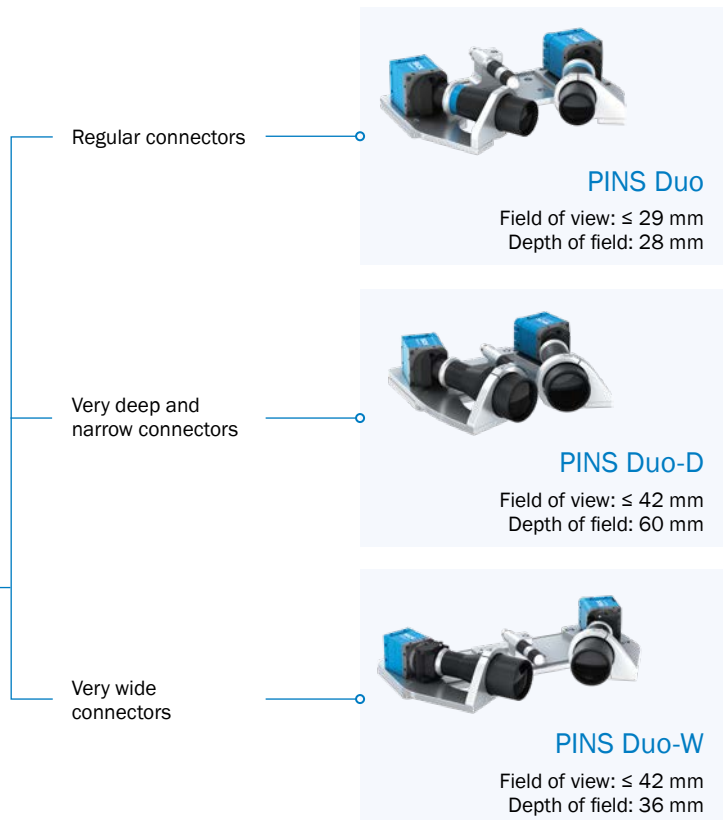
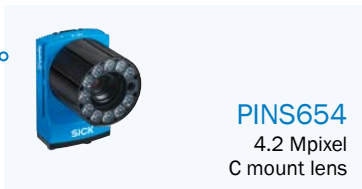
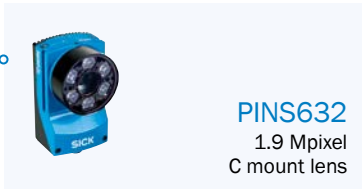
**Compact devices combined with specialized software**

- Easy setup and configuration via user-friendly interface
- Variety of different logging and reporting options

**+ Multifunctional quality control system**

**Pinspector 2D provides a unique set of inspection tools**

- Pattern matching, edge-to-edge measurement, pixel counter, blob inspection, shape locator, reading and verification of 1D and 2D codes



## SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 11,000 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, SICK is always close to its customers. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents, and preventing damage to the environment.

SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the customers need. In application centers in Europe, Asia, and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes SICK a reliable supplier and development partner.

Comprehensive services round out the offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

**That is “Sensor Intelligence.”**

### **Worldwide presence:**

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, Hong Kong, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → [www.sick.com](https://www.sick.com)