

Fact Sheet

asentics

MIIA™

Misalignment and Integrity Analysis
of Connector Pins



asentics
vision technology

MIIA™ Misalignment and Integrity Analysis of Connector Pins

Inspection of connector pins

MIIA™ is an inspection system for the automatic optical 100% inspection of connector pins. The control of pin position and -geometry within the specified tolerances is the decisive measure to ensure a safe contacting. By using 2D or 3D image analysis the connector pins are checked for completeness and correct alignment. It is also possible to check the housing type and the housing geometry.

Simple and intuitive operation of the system has been the focus point during the development. There is for example a feature that allows the operator to set up new connector types automatically and with visual support. Furthermore, tolerances of the plug position within the field of view are tracked automatically.

Features and benefits at a glance

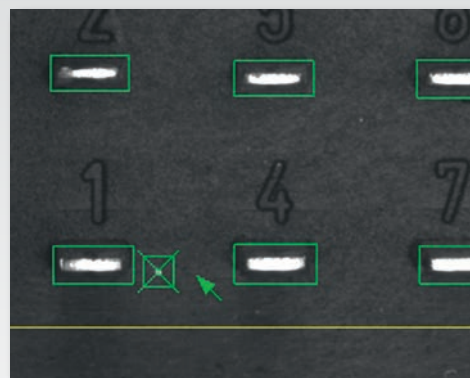
- Reliable detection of missing and bent connector pins
- Optional inspection of the contact length (3D image analysis)
- Dimensional inspection of the connector pins
- Simultaneous identification of the housing type and inspection of the housing geometry
- Simple and intuitive operation (even for large connectors with many contacts and complex arrangements)
- Durable LED illumination
- Comprehensive statistical functions
- Interface for connection to databases and ERP systems
- Easy integration into existing production lines
- Integrated interface for remote service



Detection of missing pins



Detection of bent pins



Set-up and training of defect characteristics