

## **ZEISS AIMax Inline and ZEISS AIMax BestFit**

Product information



# ZEISS AIMax Inline and ZEISS AIMax BestFit

## Stationary and mobile 3D sensors for process inspection

### ZEISS AIMax Inline and BestFit

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The AIMax Inline and AIMax BestFit fixed sensors from ZEISS are compact, optical 3D geometry sensors designed for industrial use with in-line measuring technology. A comprehensive technology package allows you to complete various tasks such as quality assurance, location recognition and production-control jobs, including robot guidance.

### Benefits

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- Insensitivity to fluctuating ambient brightness and extraneous light through the use of special filters and matched LEDs
- Additional integrated light sources for diffuse illumination of measurement objects
- Easy to use and configure
- Compact sizes
- High temperature stability through active compensation
- Temperature capture and the storage of calibration and temperature compensation data in the sensor

### Applications

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- Inspection of assembly and welding processes
- Extensive measuring functions
- Precision car body construction and metalworking
- Location recognition and positioning (parts, car bodies)
- Component attachment (doors, windows, covers)
- Robot guidance
- Form & pierce

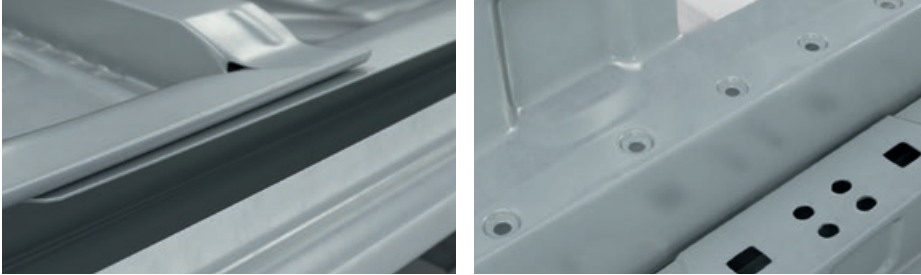


**ZEISS AIMax BestFit**  
*The optical sensor is suitable for particularly difficult-to-reach areas. It can also be used in stationary fixed sensor cells and directly on the robot. The compact size enables a large number of sensors to be integrated in a small space.*

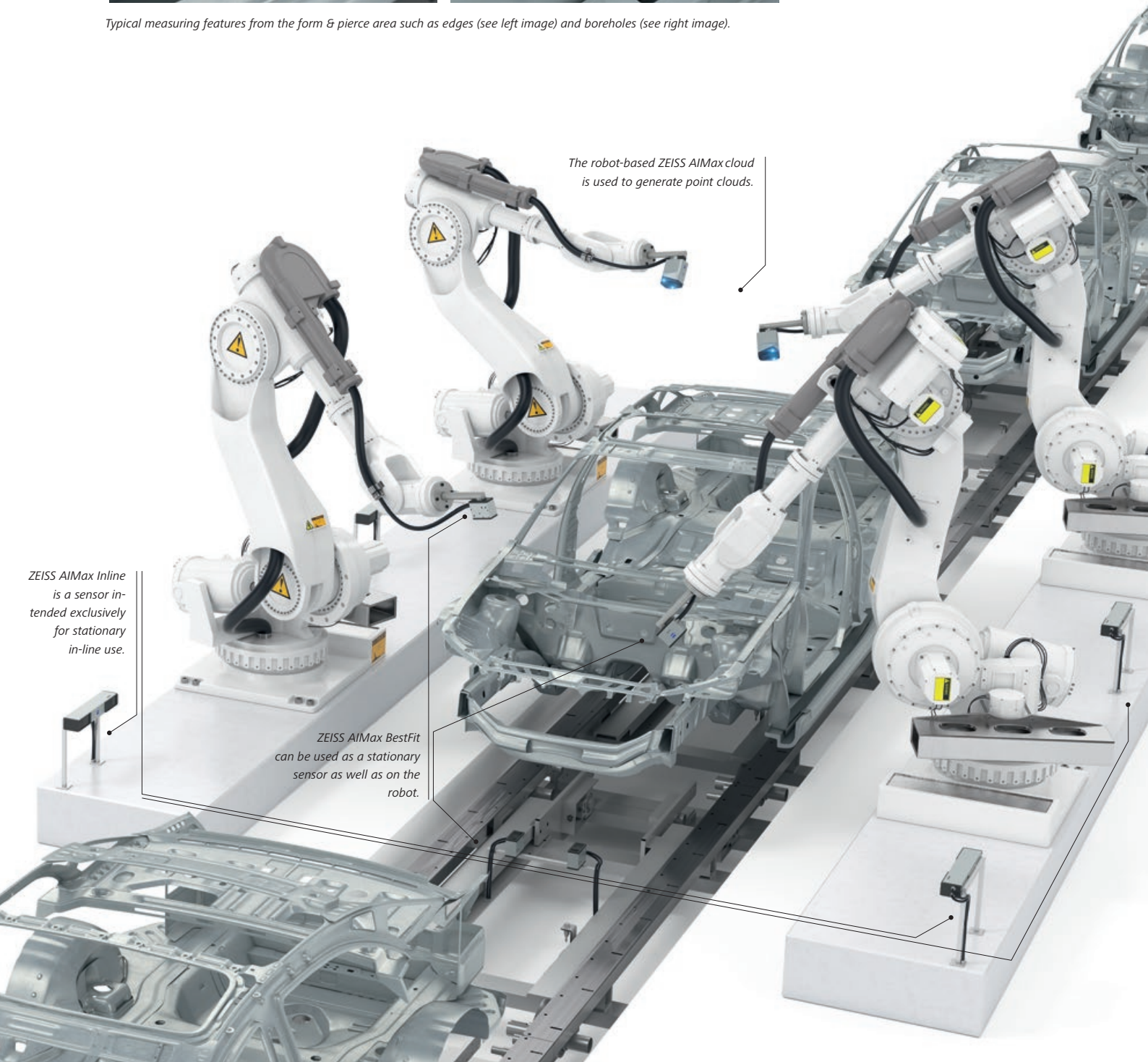
**ZEISS AIMax Inline**  
*The stationary optical 3D geometry sensor features a wide range of measuring distances and enables solutions for diverse measuring tasks, e.g. quality assurance, location recognition and production-control jobs.*



## Examples of measurable characteristics



Typical measuring features from the form & pierce area such as edges (see left image) and boreholes (see right image).



The robot-based ZEISS AIMax cloud is used to generate point clouds.

ZEISS AIMax Inline is a sensor intended exclusively for stationary in-line use.

ZEISS AIMax BestFit can be used as a stationary sensor as well as on the robot.

**Technical data: ZEISS AIMax Inline**

Camera	Digital (GigE) camera technology (monochrome)
Camera resolution	1280 pixels x 1024 pixels
Illumination	Red light (hyper red, 635 nm) or near infrared (NIR, 850 nm)
Laser class	2M
Measuring time	< 0.1-0.5 seconds, image acquisition including evaluation

**Sizes (in mm)**

ZEISS AIMax Inline	400	600	900
Measuring distance	400	600	900
Viewing panel	93 x 74 x 60	85 x 70 x 60	125 x 100 x 90
Dimensions	425 x 60 x 87.5	425 x 60 x 87.5	610 x 60 x 87.5
Weight	3600 g	3600 g	5100 g

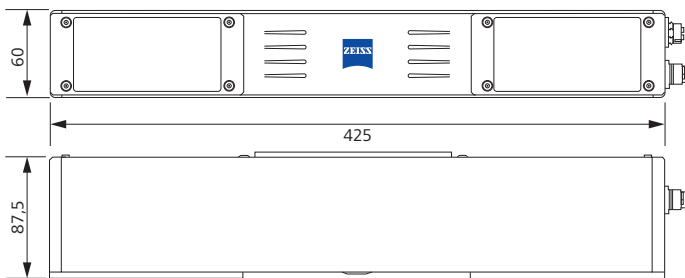
**Technical data: ZEISS AIMax BestFit**

Camera	Digital (GigE) camera technology (monochrome)
Camera resolution	1280 pixels x 1024 pixels
Illumination	Red light (hyper red, 635 nm)
Laser class	2M
Measuring time	< 0.1-0.5 seconds, image acquisition including evaluation

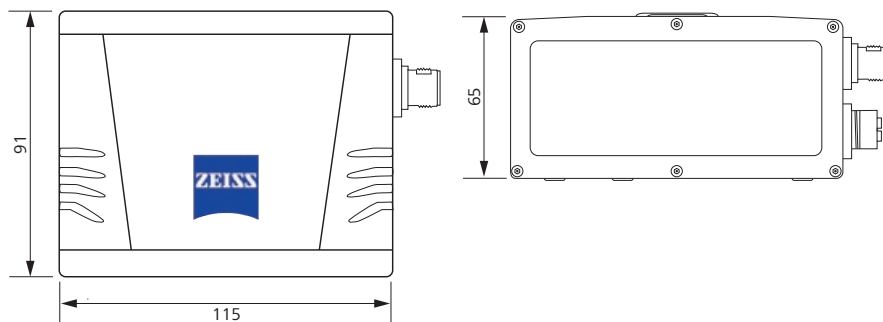
**Sizes (in mm)**

ZEISS AIMax BestFit	60	120	250
Measuring distance	60	120	250
Viewing panel	70 x 55 x 10	75 x 60 x 55	120 x 95 x 85
Dimensions	115 x 91 x 65	115 x 91 x 65	115 x 91 x 65
Weight	900 g	900 g	900 g

Example: ZEISS AIMax Inline 600, see table for additional sizes



Example: ZEISS AIMax BestFit 120, see table for additional sizes



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