

HS306 Sensor

Overview

The HS306 is an upgraded version of the very popular HS305 sensor. It, too, offers the widest range of resolution and field-of-view options. The HS306 includes a color graphical display and an optional barcode scanner. With a sturdy cast urethane housing and rigid-mounted components, the HS306 is designed for years of rugged use.



Operating Features



Operator Feedback – The HS306 utilizes a full-color graphical display for presentation of measurement values, graph of the current processed scan or instructions to guide the operator to the proper location through the use of bitmaps (photos) and text instructions. Also, like the HS305, three LED's at the front and the rear of the sensor direct the operator to roll the sensor to the correct angle before the scan is completed.

Barcode – An optional barcode scanner is available to the user for trace entry or text entry. In the past, the user was required to manually enter trace information (such as serial number or VIN), but with the use of the barcode scanner, this is done automatically. Practically all barcode formats are supported.

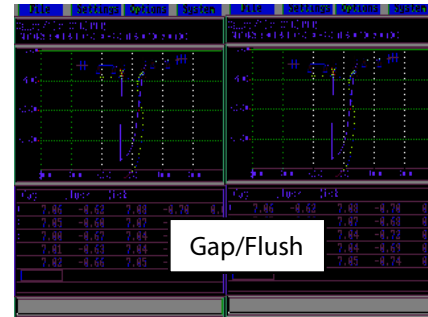
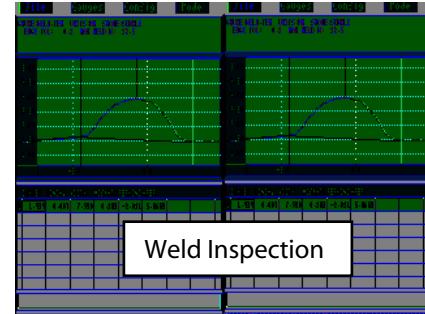
Design - The contoured pistol-grip handle makes the HS306 easy to hold and intuitive to use. A simple finger pull of the trigger, which is located under the handle, starts the scanning process; and when the scan and measurements are complete, a green LED signals the operator to release the trigger.

Removable Standoffs - Standoffs are used to position the sensor above the surface at an optimum distance and to guide the sensor to the center of the feature being measured. They are not a factor in the calculations made. Standoffs are designed to the requirements of the application and can be changed by the operator as the sensor is used to make different types of measurements.

Automatic Gain Adjustment - The sensor's microcontroller automatically adjusts the intensity of the laser and the gain of the camera to optimize the sensor's performance on the various surface finishes, from raw metal to the full spectrum of painted colors.

Applications

Gap/Flush	Automotive, aerospace and other assembly closure fits and part alignment.
Step/Angle	Steps 0 to 1.0", angles from -60° to +60°
Weld Inspection	Butt, lap and fillet welds, width from 0.125" to 2.0"
Radius	Radius of curvature measurements from 0.250" to 5.000"
Fasteners	Height and angle of the fastener head relative to adjacent surface
Wear	Wear down to 0.002" depth
Dents/Gouges	Dents, gouges and foreign object damage from 0.002" to 0.500"



Advantages

Versatile - The HS306 is an enhancement to the widely used HS305 sensor with the added graphical display and barcode scanner. Its large standoff distance from the surface gives it the potential to capture more surface points on curving contours around the feature being measured.

Durable - A rugged, cast urethane housing protects the sensor's optics from damage during normal use.

Sensor Specifications

Type	Handheld
Size	2.25" (w) x 3.3" (h) x 7.0" (l)
Weight	14 oz
User Interface	Color, graphical display plus 2 sets of 3 LED's
Cable Length	5' (1.5m) extended, user-replaceable cable
FOV Options/Resolution	0.5" (13mm) / 0.0008" (20µm) 1.0" (25mm) / 0.001" (25µm) 1.2" (30mm) / 0.0012" (30µm) 2.4" (60mm) / 0.002" (50µm) 3.2" (80mm) / 0.004" (100µm)
Shock Protection	Coiled spring cable, cast urethane housing
Environment	0° – 70° C



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