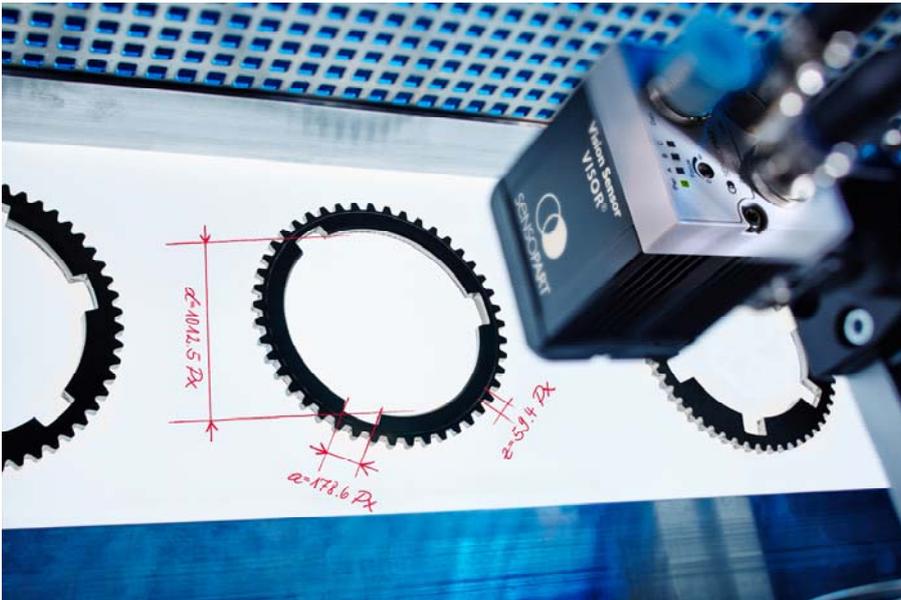


A press release by SensoPart Industriesensorik GmbH, Gottenheim near Freiburg/Breisgau, Germany

Vision sensor now with calliper function



VISOR_Messschieber.jpg

Sensor manufacturer SensoPart Industriesensorik has extended its existing range of VISOR® vision sensors with the addition of a new calliper function. The latest algorithms enable the detection of distances, widths and lengths as well as outer and inner diameters with subpixel accuracy. The calliper function is available in both the monochrome and colour versions of VISOR® V20 with a 1.3 megapixel resolution.

Typical applications for the calliper function are inspection tasks for which standard object detection methods prove insufficient, and where reliable object analysis can only be achieved by distance measurement. This can be the case, for example, in the packaging industry, in mechanical engineering or in the automotive industry and its suppliers, where a dimensional check is an additional means of checking parts for completeness and correctness. In plastics processing, measurement of the outer contours of a plastic injection-moulded part ensures reliable detection of flash and short shot.

Accurate analysis of image details and analysis of larger image areas is also possible thanks to the 1.3 megapixel resolution. Appropriate lens versions (integrated or C/CS mount) ensure that the sensor is best adapted to the size of the part – from small parts in the millimetre range to metre long parts.

The detected edges and measuring results from the new calliper function are graphically displayed in a dialogue box. This helps to improve parameter settings und prevent error measurements due to image distortion. For parts with sloping edges, indentations or overlaps, it is possible to select minimum or maximum distance detection in order to search specifically for these measurements. Detection accuracy can be increased or execution time improved by varying the number of search strips.

A digital good-bad result can be generated from the measuring result based on appropriate tolerances and supplied to a simple digital output. Should this not be sufficient, the exact measuring results can be emitted via the recently introduced PROFINET interface or one of the other interfaces (Ethernet, RS422, RS232) for further processing or archiving.

The VISOR® V20 version combines a 1.3 megapixel resolution (monochrome or colour) with a calliper function and PROFINET interface in a user-friendly vision sensor and is unique on the market.

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SensoPart Industriesensorik GmbH

The sensor manufacturer SensoPart, based in Wieden near Todtnau, and also in Gottenheim near Freiburg since 2001, develops, produces and sells sensors for industrial applications. The main focus is on optoelectronic sensors, particularly laser sensors, which are used in so many industrial applications, and high-performance vision sensors for the detection of objects, colours or data matrix codes.

The past years have been marked by a strong growth in turnover and the regular launch of new, innovative products. SensoPart has received several distinctions for its work, for example the Dr. Rudolf-Eberle Prize, 1st place in the Baden-Württemberg Prize for the Promotion of Young Companies, and has been awarded the German Sensor Application Prize several times. Further information can be found online under: <http://www.sensopart.com>.