PRESS RELEASE

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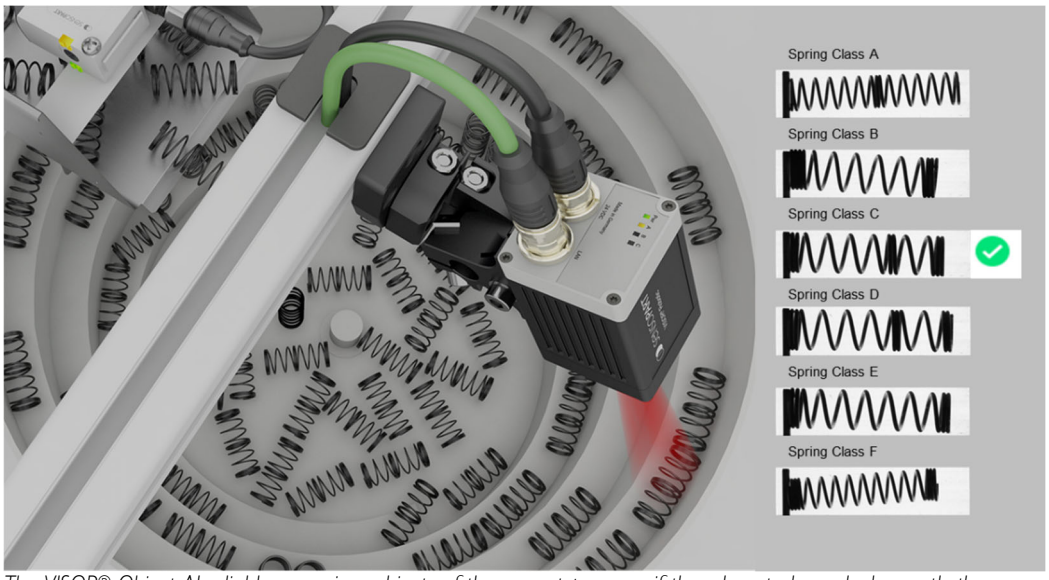
Information from SensoPart Industriesensorik GmbH, Gottenheim near Freiburg/Breisgau, Germany

VISOR® Object AI – the future of machine vision

With artificial intelligence, the new VISOR® Object AI is even easier to set up - even without expert knowledge in machine vision.



The VISOR® Object AI reliably recognizes objects of the same type, even if they do not always look exactly the same.

With the latest member of its VISOR® family, SensoPart is making vision applications even easier. Thanks to the artificial intelligence bundled in the "Classification (AI)" detector, the VISOR® Object AI independently learns distinguishing characteristic features based on a few images of the object to be detected. Even strong process and product variations such as fluctuations between batches, contamination, reflections, changing shapes or varying 3D orientation can be taught with just a few mouse clicks. It's then able to reliably recognize the objects appearing in front of the lens and assign them to different classes.

For presence checks, components can be rated as "good" or "bad" or divided into 200 classes - for example, to ensure that the right parts for the respective product are always supplied and processed for product variants. Once a classification has been taught, it works reliably and robustly, without the user having to worry about suitable detection rules and parameters, as is the case with classic, rule-based image processing (e.g. using pattern comparison, contour or contrast recognition). Because the VISOR® Object AI is capable of learning, it typically only needs around five sample images per object class to sufficiently achieve a stable detection

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process. The AI algorithm is implemented in the sensor itself and therefore does not require any network or cloud connections.

Solves problems that would otherwise be difficult to solve

The application possibilities of SensoPart's new AI vision sensor are just as diverse as its built-in classification competence. In automobile production, it can differentiate between component variants and determine whether the appropriate variant is available for a specific vehicle equipment. When flexible, shape-changing objects such as spiral springs or plastic bags are fed in, it detects wrong parts or incorrect positions.

Compared to classic detectors, the AI vision sensor can solve such tasks with significantly reduced setup effort and increased process stability. The user saves time because he does not have to create a logical link between several detectors.

The future of machine vision has begun

The VISOR® Object AI makes machine vision easier than ever. With artificial intelligence, the new vision sensor can be set up in just a few steps - without any expert knowledge.

About SensoPart Industriesensorik GmbH

SensoPart develops, produces, and sells a wide range of innovative sensors for factory automation. The focus is on optoelectronic sensors and camera-based vision sensors that are used in industrial applications - e.g. for detecting objects or colors, for distance measurement, for code reading or in robotics. The products are developed and manufactured "Made in Germany" at the Gottenheim near Freiburg and Wieden sites in the southern Black Forest. With its four subsidiaries and its network of over 40 international sales partners, SensoPart is represented worldwide. Since it was founded in 1994, the family business has stood for medium-sized flexibility as well as for innovative and efficient products. SensoPart has repeatedly received awards for this, for example first place in the Automation Award and several times the German Sensor Application Prize.

You can find more information about SensoPart at http://www.sensopart.com.