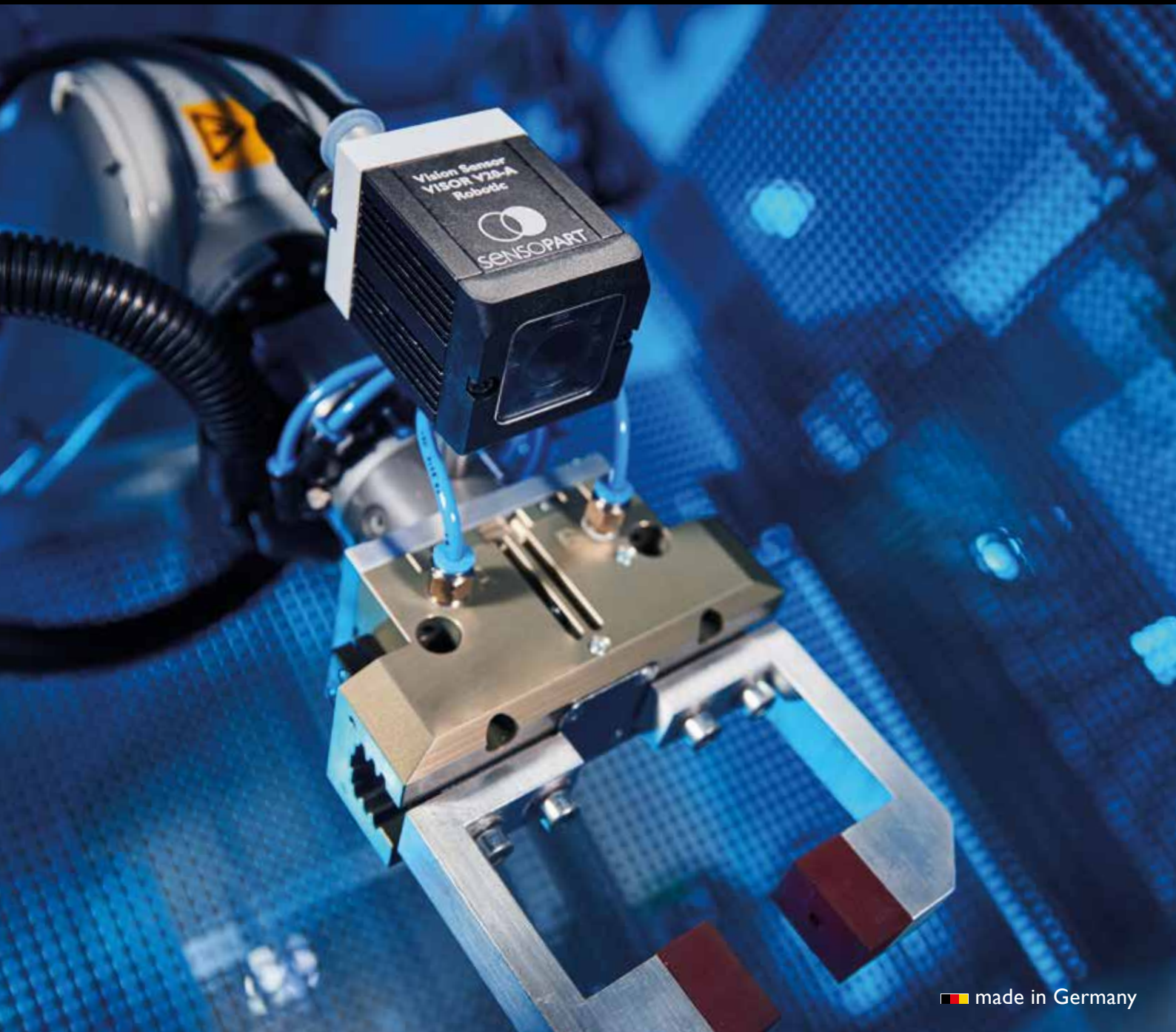# VISOR® Robotic

An eye on everything – the Vision sensor for robotics applications

made in Germany

VISOR® Robotic

The expert sensor for robotics applications

made in Germany

A diverse specialist

Expectations of today's robotics solutions are steadily rising in the context of Industry 4.0, paired with a simultaneous desire for greater ease-of-use. And this is precisely where the VISOR® Robotic demonstrates its outstanding ability. Available in several versions, it offers the perfect solution for a variety of automation tasks. Designed with integrated and standardised interfaces, VISOR® Robotic can be easily incorporated in existing installations and systems, and thanks to different calibration methods and flexible data structures, it is also suited to a diverse range of procedures.

TYPICAL OF VISOR® ROBOTIC

- The right version for every application
  - Different resolutions
  - Focal length of 6 mm to 75 mm
  - Monochrome and color version (e.g. to suppress, different colored conveyor belts)
- Integrated and standardised interfaces (Profinet, EtherNet/IP, TCP/IP)
- Flexible output protocol
- Gripper space check – check for available space around gripper
- Offset of work plane through Z-offset function
- Result-offset correction in VISOR® software for simple adjustment of gripper point
- Different detectors for locating up to 10,000 components

VISOR® Robotic

Pick & place applications made simple.

Picking up components

Feeding systems in a production line are becoming increasingly versatile – in addition to universal trays, components can be supplied with utmost flexibility using hopper feeders. Thanks to the VISOR® Robotic, components can be reliably located and gripped with both feed options. When loose components are supplied, the sensor not only checks their position but also inspects the free space around the gripper. The VISOR® determines both sets of information and sends them to the robot controller via one of the integrated and standardised process interfaces. The process is managed on the basis of this information – the object is gripped or the feeder is triggered. The application can also be flexibly adapted to individual goods carriers without the need for a costly centring device. The VISOR® detects the position and the fill level of the tray and transmits this information to the robot. If the camera is mounted in a stationary manner, this is cycle time-neutral.

The VISOR® Robotic detects the component's position in a universal tray. It can then be reliably removed. Up to 255 configurations enable utmost production flexibility.

Placing parts

What happens after components have been reliably collected by the gripper? The VISOR® Robotic also supplies important information for the next work steps, and demonstrates its skills in robot-controlled applications, such as the placing of screws, the mounting of clips or the application of glue. The detection of component positions is carried out effortlessly; this allows the correction of any offset and increases the quality of production. Knowledge of the exact position of a component ensures, for example, the precise insertion of a windscreen. Mechanical effort is reduced, and the production line becomes even more flexible. The VISOR® Robotic concept enables direct communication between the VISOR® and the robot, an additional instance is no longer necessary for many applications.

The VISOR® Robotic determines the exact position of the sensor housing. Offset data is used to correct the robot's trajectory.

VISOR® calibration plate: automatic correction of errors caused by distortion ensures precise results. Four available versions cover diverse fields of view and working distances.

We look ahead

Yesterday, today and in the future

Any questions? Contact us at robotic@sensopart.com

VISOR® Robotic – Product overview					
Order reference	Article no.	Product version	Resolution	Focal width	Integrated lighting
V20-RO-A2-W12	536-91047	Mono	1280 × 1024 Pixel	12 mm	white
V20-RO-A2-R12	536-91048	Mono	1280 × 1024 Pixel	12 mm	red
V20-RO-A2-I12	536-91049	Mono	1280 × 1024 Pixel	12 mm	infrared
V20-RO-A2-C	536-91053	Mono	1280 × 1024 Pixel	C-Mount	none
V10-RO-A2-W6	535-91123	Mono	736 × 480 Pixel	6 mm	white
V10-RO-A2-W12	535-91116	Mono	736 × 480 Pixel	12 mm	white
V10-RO-A2-W25	535-91119	Mono	736 × 480 Pixel	25 mm	white
V10-RO-A2-R6	535-91124	Mono	736 × 480 Pixel	6 mm	red
V10-RO-A2-R12	535-91117	Mono	736 × 480 Pixel	12 mm	red
V10-RO-A2-R25	535-91120	Mono	736 × 480 Pixel	25 mm	red
V10-RO-A2-I6	535-91125	Mono	736 × 480 Pixel	6 mm	infrared
V10-RO-A2-I12	535-91118	Mono	736 × 480 Pixel	12 mm	infrared
V10-RO-A2-I25	535-91121	Mono	736 × 480 Pixel	25 mm	infrared
V10-RO-A2-C	535-91122	Mono	736 × 480 Pixel	C-Mount	none
V20C-RO-A2-W12	536-91051	Color	1280 × 1024 Pixel	12 mm	white
V20C-RO-A2-C	536-91050	Color	1280 × 1024 Pixel	C-Mount	none

Find your local contact at: www.sensopart.com/international

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