VISOR® Robotic
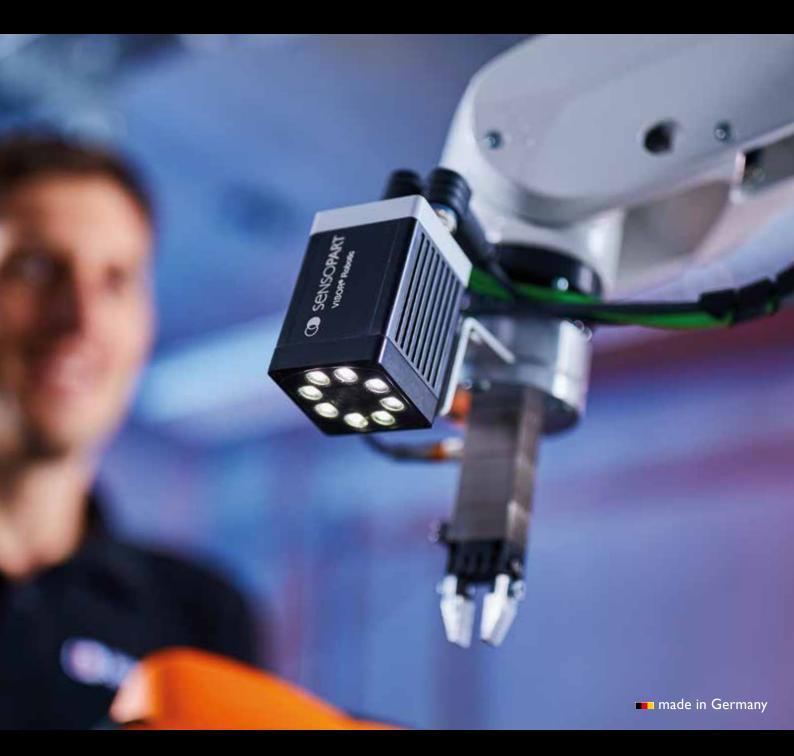
An eye on everything – the vision sensor for robotics applications

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.

HIGHLIGHTS OF VISOR® ROBOTIC

- The right version for every application
  - Different resolutions
  - Diverse fields of view
  - Monochrome and color version (e.g. to suppress, different colored conveyor belts)
- Motor-operated focus and a target laser (laser class 1) for easy alignment of VISOR® Robotic
- Integrated and standardised interfaces (PROFINET, EtherNet/IP, TCP/IP)
- Flexible output protocol
- Gripping 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 components

VISOR® Robotic

Pick & place applications made simple.
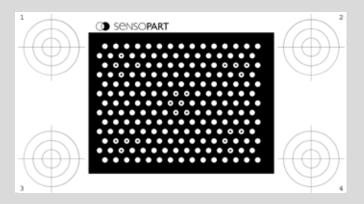
Picking up components

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 functions	Resolution	Field of view	Alternative LED illuminations
V20-RO-A3-R-W-M2-L	632-91067	Robotic	1440 x 1080 pixels	wide	white, infrared
V20-RO-A3-R-M-M2-L	632-91068	Robotic	1440 x 1080 pixels	medium	white, infrared
V20-RO-A3-R-N-M2-L	632-91069	Robotic	1440 x 1080 pixels	narrow	white, infrared
V20-RO-A3-C-2	632-91073	Robotic	1440 x 1080 pixels	dependent on lens selected*	none
V20-RO-P3-R-W-M2-L	632-91123	Robotic, Identification	1440 x 1080 pixels	wide	white, infrared
V20-RO-P3-R-M-M2-L	632-91124	Robotic, Identification	1440 x 1080 pixels	medium	white, infrared
V20-RO-P3-R-N-M2-L	632-91125	Robotic, Identification	1440 x 1080 pixels	narrow	white, infrared
V20-RO-P3-C-2	632-91129	Robotic, Identification	1440 x 1080 pixels	adependent on lens selected*	none
V10-RO-A3-R-W-M2-L	631-91076	Robotic	800 x 600 pixels	wide	white, infrared
V10-RO-A3-R-M-M2-L	631-91077	Robotic	800 x 600 pixels	medium	white, infrared
V10-RO-A3-R-N-M2-L	631-91078	Robotic	800 x 600 pixels	narrow	white, infrared
V10-RO-A3-C-2	631-91082	Robotic	800 x 600 pixels	dependent on lens selected*	none
V20C-RO-P3-W-W-M2-L	632-91130	Robotic, Identification, Color	1440 x 1080 pixels	wide	none
V20C-RO-P3-W-M-M2-L	632-91131	Robotic, Identification, Color	1440 x 1080 pixels	medium	none
V20C-RO-P3-W-N-M2-L	632-91132	Robotic, Identification, Color	1440 x 1080 pixels	narrow	none
V20C-RO-P3-C-2	632-91133	Robotic, Identification, Color	1440 x 1080 pixels	dependent on lens selected*	none

* Available separately.