



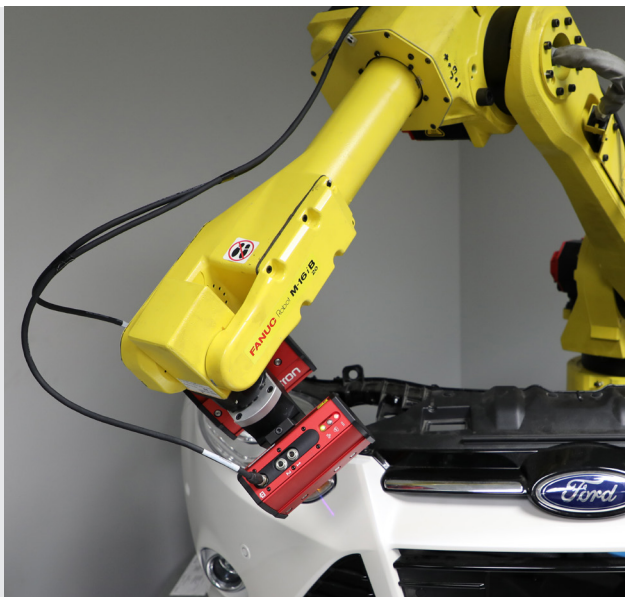
AutoFit

Accurate Gap and Flush
Measurement Solution

ISRA
VISION
perceptron

AutoFit – Accurate Gap and Flush Measurement Solution

Perceptron's AutoFit solution features our latest Helix_{solo} sensor and accurate algorithms for best-in-class measurement information on adjacent materials. Whether you are looking for headlamps to paint and chrome, tail lamps to paint and chrome, or paint to paint; Helix_{solo} provides accurate measurement results within seconds so you can quickly contain and fix out of spec fit conditions.



Accurate Gap and Flush Measurement for Optimal Fit and Finish

Perceptron is the world leader for in-process measurement of gap and flush. The revolutionary AutoFit solution utilizes Helix_{solo} contour sensors coupled with Perceptron's accurate algorithm to direct your personnel where to make adjustments and what to correct. AutoFit ensures that every product leaving your facility achieves the highest standards for fit and finish.

Key features and benefits

- Helix_{solo} is a non-contact, single line sensor built for the plant floor with an IP67 rating (dust-tight, immune to temporary water immersion).
- By pairing a high-resolution camera with a blue and violet laser, Perceptron has achieved an unparalleled return image quality on edges and hemmed radii.
- Available in 200mm and 400mm standoffs to support all robot types – collaborative and industrial.
- Structure mounted visual fixturing sensor (C800VF) option for moving line or stop station configurations.
- Single cable connectivity via Power over Ethernet (PoE) is common with Helix_{evo} and simplifies robot dress package setup and system maintenance.
- Optimized acquisition speed and save cycle time since the entire gap is captured in one scan.
- Factory calibrated and rectified so each sensor arrives ready to measure.
- No-offset algorithm provides data confidence and meets industry-leading gap and flush standard.

Sensor Specifications



Operatin Temp.:
10 - 45°

Communications:
PoE Class 4

Laser: Violet or Blue
405 or 450 mm
wavelength

Safety: Class 2M or 3R
IEC 60825-1:2014

Certification: CE

Protection: IP67

Sensor Type	Field of View of Standoff (mm)			Length (mm)	Weight (kg)
	X	Y	Z		
C200	0	65	100	175	1.80
C400	0	55	120	235	2.20
C800VF	0	250	400	380	3.10



Innovations for industrial metrology



Automation at its best

ISRA VISION has been a leading supplier of high-performance quality inspection, robot guidance, and production logistics systems for more than 30 years.

The addition of Perceptron's automated 3D metrology solutions and coordinate measuring machines to the portfolio offers you tailored and automated quality measurement along the entire process chain. The globally proven and innovative metrology equipment from Perceptron ensures that every product meets the highest standards for end-to-end quality assurance – enabling a fast return on investment.

We consistently align our solutions with the requirements of our customers. We also provide you with full support after delivery in the form of service and maintenance – so you can sustainably raise productivity by using your systems.

More than 900 employees at our sites in Europe, North and South America, and Asia are committed to your success.

Perceptron – the pioneer for automated quality measurement

Together, ISRA and Perceptron exemplify the highest standards of competence and precision. Perceptron is a global leader in automated 3D measuring solutions and coordinate measuring machines. Customers from a wide range of industries rely on Perceptron for the following reasons:

- From 100 % inline quality measurement to coordinate measuring machines – Perceptron offers the right measuring solution for demanding applications. More than 2,700 inline systems from Perceptron are already in operation.
- Perceptron leverages extensive know-how and decades of experience to develop innovative solutions for complex measurement tasks in modern assembly lines. Examples include in-process moving-line gap & flush inspection on transparent surfaces, or the use of state-of-the-art tracking technologies for absolute-accuracy dimensional gauging on the shop floor.
- Our automated metrology solutions ensure that every product meets the highest standards in terms of fit and processing. This reliably minimizes reworking, reduces reject rates, and increases productivity.

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Optimize your ROI with the technology leader
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