

SICK.COM



DATA SHEET

PLB-5190701

PLB
Robot guidance systems

SICK Sensor Intelligence

ROBOT GUIDANCE SYSTEMS

PLB-5190701

ORDERING INFORMATION

Type	part no.
PLB-5190701	1136786

Further device versions and accessories at www.sick.com/PLB



DETAILED TECHNICAL DATA

FEATURES

Product version	PLB-536
Field of view	Medium
Classification	Secondary camera
Tasks	Position determination
Applications	Robot guidance
Camera type	3D snapshot
Example volume of view (L x W x H)	790 mm x 650 mm x 500 mm
Image resolution	0.2 mm ... 0.5 mm, depending on the distance to the camera
Light source	LED white, red or blue
LED class	Risk group 2
3D CAD format	IGES, STEP
Technology	3D snapshot, image analysis

MECHANICS/ELECTRONICS

Connection type	Plug connector, M12, 5-pin
Supply voltage	24 V DC, ± 20 %
Current consumption	5 A
Dimensions (L x W x H)	169 mm x 124 mm x 56 mm
Weight	945 g
Enclosure rating	IP65

PERFORMANCE

Part localization time	3 s ... 10 s, typical
Part size	(approx.) > 50 mm x 50 mm x 50 mm
Part characteristics	Simple and complex part shapes

INTERFACES

Ethernet	Data transmission rate	10 Gbit/s (camera), 10/100 Mbit/s (robot)
	Protocol	TCP/IP (camera)
	Electrical connection	RJ45

AMBIENT DATA

Ambient temperature, operation	0 °C ... +40 °C, Non-condensing
Shock load	15 g / 11 ms ¹⁾
Vibration load	10-150 Hz / 5 g ²⁾

¹⁾ IEC 60068-2-27.

²⁾ IEC 60068-2-6.

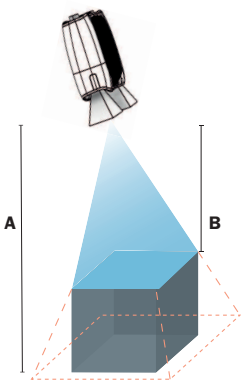
GENERAL NOTES

Items supplied	Zivid 2+ MR130 camera PLB Application Software
Factory calibrated	✓

CERTIFICATES

Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓
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DETECTION VOLUME AND FIELD OF VIEW



Parameter	PLB-536
Image resolution	0.2 mm ... 0.5 mm, depending on the distance to the camera
Part size	(approx.) > 50 mm x 50 mm x 50 mm
Min. distance	1000 mm
Max. distance	1600 mm
Field of view at min. distance (L x W)	610 mm x 510 mm
Field of view at max. distance (L x W)	970 mm x 810 mm

Parameter	PLB-536
Example volume of view (L x W x H)	600 mm x 400 mm x 420 mm

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1136786



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SICK AT A GLANCE

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SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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