



PLB-5390101

PLB

ROBOT GUIDANCE SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
PLB-5390101	1136784

Other models and accessories → www.sick.com/PLB

Detailed technical data

Features

Product version	PLB-536
Field of view	Medium
Classification	Prime
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
Localization principle	Geometrical shape and edge localization
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	✓

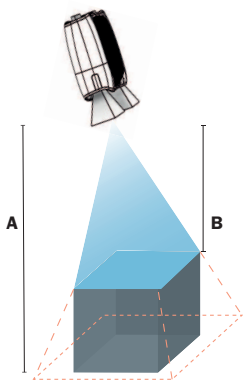
Classifications

ECLASS 5.0	27381501
ECLASS 5.1.4	27381501
ECLASS 6.0	27381590
ECLASS 6.2	27381590
ECLASS 7.0	27381590
ECLASS 8.0	27381590
ECLASS 8.1	27381590
ECLASS 9.0	27381590
ECLASS 10.0	27381590
ECLASS 11.0	27381591
ECLASS 12.0	27381591

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

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

Recommended accessories

Other models and accessories → www.sick.com/PLB

	Brief description	Type	part no.
Power supply units and power supply cables			
	<ul style="list-style-type: none"> • Input voltage: ≤ 230 V AC • Output voltage: 24 V DC • Output current: 10 A • Description: Power supply unit 	Power supply unit	6032863

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com