



PLB-5190101

PLB

ROBOT GUIDANCE SYSTEMS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
PLB-5190101	1136782

Other models and accessories → [www.sick.com/PLB](http://www.sick.com/PLB)

## Detailed technical data

### Features

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

### Mechanics/electronics

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

### Performance

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

### Interfaces

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

## Ambient data

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

<sup>1)</sup> IEC 60068-2-27.

<sup>2)</sup> IEC 60068-2-6.

## General notes

<b>Items supplied</b>	Zivid 2+ MR130 camera PLB Application Software
<b>Factory calibrated</b>	✓

## Certificates


<b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b>	✓
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## Classifications

<b>ECLASS 5.0</b>	27381501
<b>ECLASS 5.1.4</b>	27381501
<b>ECLASS 6.0</b>	27381590
<b>ECLASS 6.2</b>	27381590
<b>ECLASS 7.0</b>	27381590
<b>ECLASS 8.0</b>	27381590
<b>ECLASS 8.1</b>	27381590
<b>ECLASS 9.0</b>	27381590
<b>ECLASS 10.0</b>	27381590
<b>ECLASS 11.0</b>	27381591
<b>ECLASS 12.0</b>	27381591

## Recommended accessories

Other models and accessories → [www.sick.com/PLB](http://www.sick.com/PLB)

	Brief description	Type	part no.
Power supply units and power supply cables			
	<ul style="list-style-type: none"> <li><b>Input voltage:</b> ≤ 230 V AC</li> <li><b>Output voltage:</b> 24 V DC</li> <li><b>Output current:</b> 10 A</li> <li><b>Description:</b> Power supply unit</li> </ul>	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](http://www.sick.com)