



PLB-5320100

PLB

ROBOT GUIDANCE SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
PLB-5320100	1112945

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

Detailed technical data

Features

Product version	PLB-510
Field of view	Large
Classification	Prime
Tasks	Position determination
Applications	Robot guidance
Camera type	3D snapshot
Example volume of view (L x W x H)	1,000 mm x 900 mm x 1,000 mm
Image resolution	3 mm ... 5 mm, depending on the distance to the camera
Light source	Infrared, 808 nm
Laser class	1
Localization principle	Geometrical shape and edge localization
Technology	3D snapshot, image analysis

Mechanics/electronics

Connection type	Male connector M12, 17-pin
Supply voltage	24 V DC, ± 15 %
Current consumption	3 A
Dimensions (L x W x H)	162 mm x 93 mm x 78 mm
Weight	1,700 g
Enclosure rating	IP67

Performance

Part localization time	1 s ... 3 s, typical
Part size	(approx.) > 100 mm x 100 mm x 100 mm
Part characteristics	Simple part shapes

Interfaces

Ethernet	
Data transmission rate	1 Gbit/s (camera), 10/100 Mbit/s (robot)
Protocol	TCP/IP (camera)
Electrical connection	M12 female connector, 8-pin, X-coded

Ambient data

Ambient temperature, operation	0 °C ... +40 °C, Non-condensing
Shock load	EN 60068-2-27:2009
Vibration load	EN 60068-2-6, EN 60068-2-64

General notes

Items supplied	Visionary-S camera PLB Application Software
Factory calibrated	✓

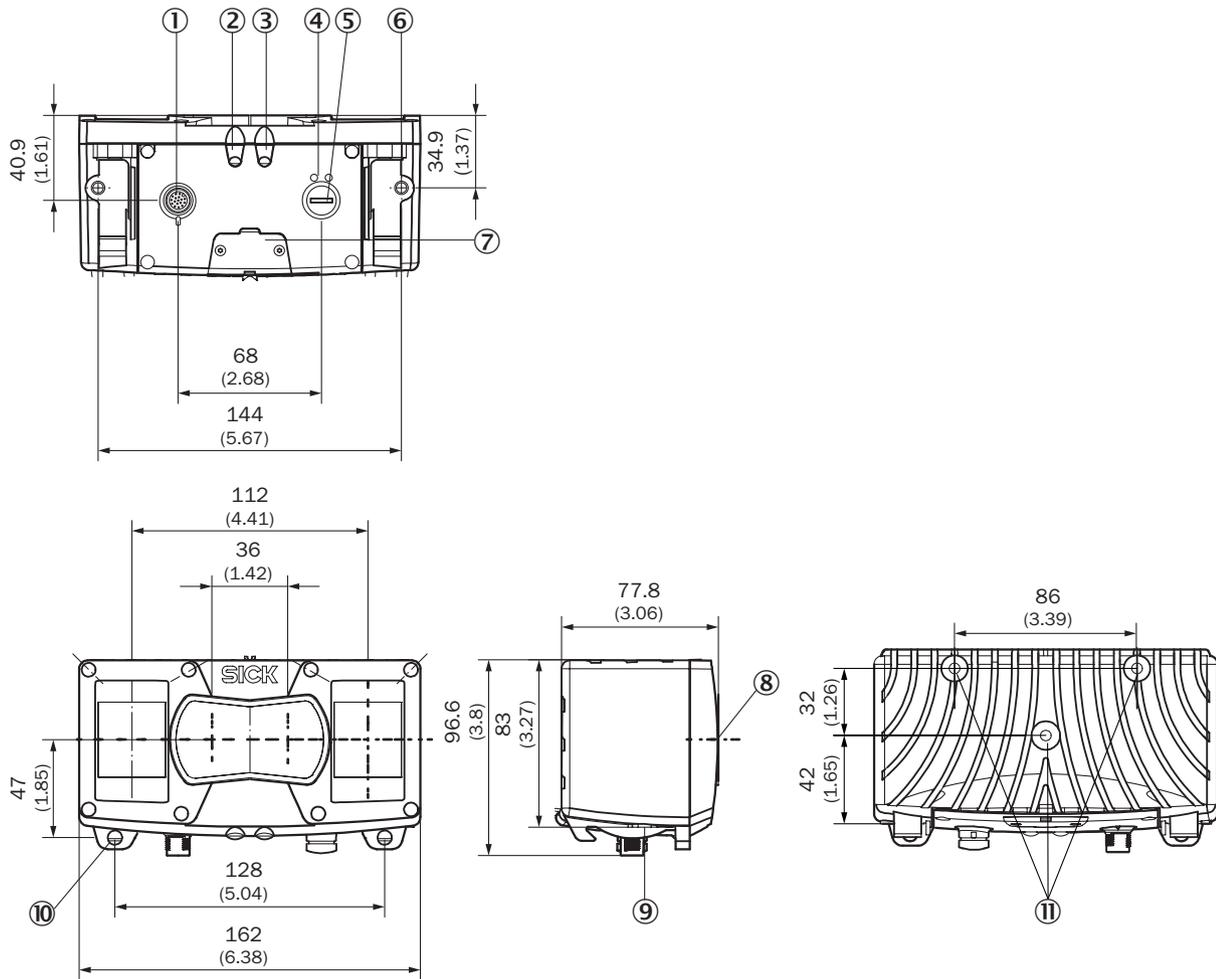
Certificates

Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓
------------------------------------------------------------------------------	---

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

Dimensional drawing



Dimensions in mm (inch)

- ① Power/I/O: M12 17-pin, A-coded
- ② device display
- ③ application display
- ④ ethernet status displays
- ⑤ Gigabit Ethernet: M12, 8-pin, X-coded
- ⑥ M6 threaded hole, 7 mm deep (2x), for mounting
- ⑦ service interface
- ⑧ Optical axis
- ⑨ bracket interface
- ⑩ bracket attachment
- ⑪ M6 threaded hole, 10 mm deep (3x), for mounting

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