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DATA SHEET

**PLB-5380100**

PLB  
Robot guidance systems

**SICK** Sensor Intelligence

## ROBOT GUIDANCE SYSTEMS

## PLB-5380100

## ORDERING INFORMATION

Type	part no.
PLB-5380100	<a href="#">1132360</a>

Further device versions and accessories at [www.sick.com/PLB](http://www.sick.com/PLB)



## DETAILED TECHNICAL DATA

## FEATURES

Product version	PLB-540
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)	1000 mm x 900 mm x 1000 mm
Image resolution	3 mm ... 5 mm, depending on the distance to the camera
Light source	Infrared, 855 nm
Laser class	1
Localization principle	Geometrical shape and edge localization
Technology	3D snapshot, image analysis

## MECHANICS/ELECTRONICS

Connection type	Male connector M12, 8-pin
Supply voltage	24 V DC, ± 15 %
Current consumption	3 A
Dimensions (L x W x H)	80 mm x 70 mm x 77 mm
Weight	520 g
Enclosure rating	IP65 / 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	30 g / 11 ms <sup>1)</sup>
Vibration load	10-500 Hz / 5 g <sup>2)</sup>

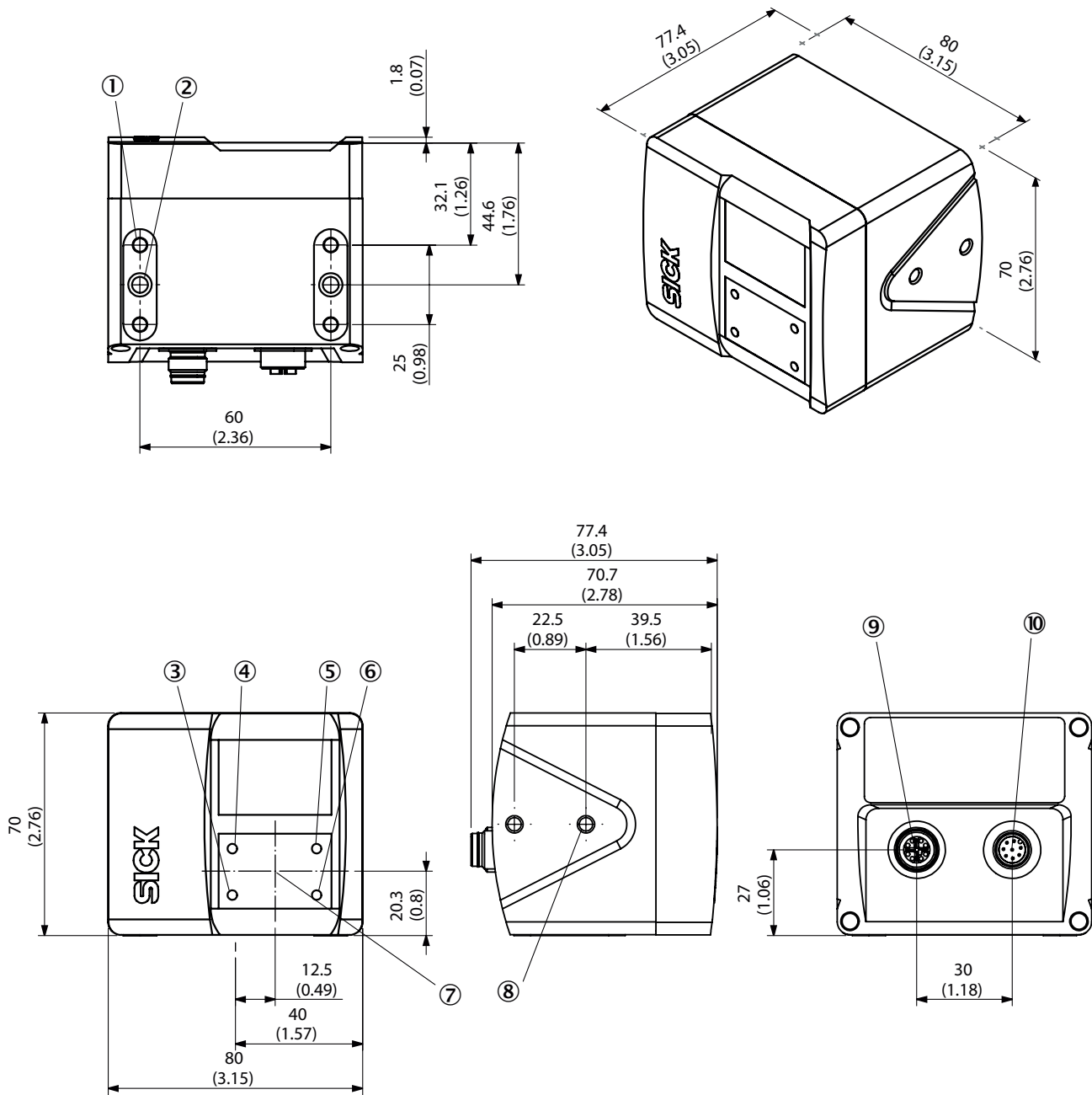
<sup>1)</sup> IEC 60068-2-27:2008.<sup>2)</sup> IEC 60068-2-6:2008, IEC 60068-2-64:2008.**GENERAL NOTES**

Items supplied	Visionary-T Mini camera PLB Application Software
Factory calibrated	✓

**CERTIFICATES**

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

**DIMENSIONAL DRAWING**



Dimensions in mm (inch)

- ① M5 threaded mounting hole, 7.5 mm deep (4x)
- ② Fit  $\varnothing$  5H7, 7 mm depth (2x)
- ③ Device status display
- ④ Application status display
- ⑤ Ethernet status display
- ⑥ Application status display
- ⑦ Sensor coordinate origin
- ⑧ Threaded mounting hole M5, 5.5 mm depth (4x)
- ⑨ "Ethernet" connection, 8-pin M12 female connector, X-coded
- ⑩ "Power/I/O" connection, 8-pin M12 male connector, A-coded

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/1132360](http://www.sick.com/1132360)



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# SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

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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