



# PLB-520-M-SC

PLB

ROBOT GUIDANCE SYSTEMS

**SICK**  
Sensor Intelligence.



## Ordering information

| Type         | part no. |
|--------------|----------|
| PLB-520-M-SC | 1099465  |

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



## Detailed technical data

### Features

|                                           |                                                            |
|-------------------------------------------|------------------------------------------------------------|
| <b>Field of view</b>                      | Medium                                                     |
| <b>Classification</b>                     | Secondary camera                                           |
| <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> | 800 mm x 600 mm x 400 mm                                   |
| <b>Image resolution</b>                   | 0.7 mm ... 0.8 mm, depending on the distance to the camera |
| <b>Light source</b>                       | LED, blue, 465 nm                                          |
| <b>LED class</b>                          | Risk group 1                                               |
| <b>3D CAD format</b>                      | IGES, STEP                                                 |
| <b>Technology</b>                         | 3D snapshot, image analysis                                |

### Mechanics/electronics

|                               |                         |
|-------------------------------|-------------------------|
| <b>Supply voltage</b>         | 24 V DC, <sup>1)</sup>  |
| <b>Current consumption</b>    | 5 A                     |
| <b>Dimensions (L x W x H)</b> | 488 mm x 180 mm x 80 mm |
| <b>Weight</b>                 | 2.5 kg                  |
| <b>Enclosure rating</b>       | IP54                    |

<sup>1)</sup> ± 15 %.

### Performance

|                               |                                   |
|-------------------------------|-----------------------------------|
| <b>Part localization time</b> | 3 s ... 10 s, typical             |
| <b>Part size</b>              | (approx.) > 30 mm x 30 mm x 30 mm |
| <b>Part characteristics</b>   | Simple and complex part shapes    |

### Interfaces

|                        |                                          |
|------------------------|------------------------------------------|
| <b>Ethernet</b>        |                                          |
| Data transmission rate | 1 Gbit/s (camera), 10/100 Mbit/s (robot) |
| Protocol               | TCP/IP (camera)                          |
| Electrical connection  | M12 male connector, 8-pin, x-coded       |

## Ambient data

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| <b>Ambient temperature, operation</b> | 0 °C ... +40 °C, Non-condensing       |
| <b>Shock load</b>                     | 80 g/1,9 ms, 25 g/ 6 ms <sup>1)</sup> |
| <b>Vibration load</b>                 | 30-500 Hz / 10 g <sup>2)</sup>        |

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

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

## General notes

|                           |                                        |
|---------------------------|----------------------------------------|
| <b>Items supplied</b>     | X36 camera<br>PLB Application Software |
| <b>Factory calibrated</b> | ✓                                      |

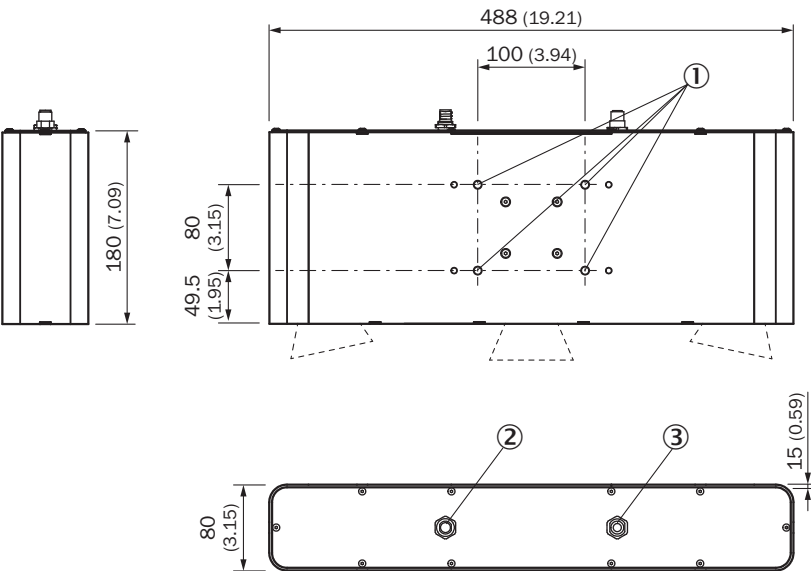
## Certificates

|                                                                              |   |
|------------------------------------------------------------------------------|---|
| <b>EU declaration of conformity</b>                                          | ✓ |
| <b>UK declaration of conformity</b>                                          | ✓ |
| <b>ACMA declaration of conformity</b>                                        | ✓ |
| <b>China RoHS</b>                                                            | ✓ |
| <b>Information according to Art. 3 of Data Act (Regulation EU 2023/2854)</b> | ✓ |

## 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 |

Dimensional drawing



- Dimensions in mm (inch)
- ① mounting hole patter M8x4
  - ② Ethernet connector M12
  - ③ Power I/O connector M12

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)