



# PLR3200-01

PLR

ROBOT GUIDANCE SYSTEMS

**SICK**  
Sensor Intelligence.



## Ordering information

Type	part no.
PLR3200-01	1097315

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



## Detailed technical data

### Features

<b>Tasks</b>	Position determination
<b>Example volume of view (L x W x H)</b>	260 mm x 260 mm (typical)
<b>Measurement range</b>	265 mm ... 515 mm, recommended: 365 mm
<b>Light source</b>	Laser, 635 nm, internal LED, 630 nm Aiming laser, 680 nm
<b>Laser class</b>	2 (IEC 60825-1:2014)
<b>LED class</b>	Risk group 0 (Exempt, IEC62471 : 2006)
<b>Technology</b>	2D snapshot, 3D snapshot, image analysis

### Mechanics/electronics

<b>Supply voltage</b>	24 V DC, ± 20 %
<b>Power consumption</b>	10 W, ± 20 %
<b>Current consumption</b>	Typ. 0.7 A Max. 1.2 A, At 24 V DC
<b>Housing material</b>	Aluminum (anodised)
<b>Window material</b>	PMMA
<b>Dimensions (L x W x H)</b>	225 mm x 90 mm x 84 mm
<b>Weight</b>	2.5 kg
<b>Enclosure rating</b>	IP65

### Performance

<b>Part localization time</b>	< 600 ms
<b>Localization accuracy</b>	± 0.5 mm, ± 0.1° <sup>1)</sup>
<b>Output data</b>	X, Y, Z (mm) roll, pitch, yaw (degrees)

<sup>1)</sup> Depending on material properties such as reflectivity and edge features. The accuracy values are valid inside the Field of View. Due to scaling error, the measurement accuracy decreases with increasing distance away from the measurement area.

### Interfaces

<b>Ethernet</b>	
Data transmission rate	100 Mbit/s
Protocol	TCP/IP XML and CSV (robot), TCP/IP (operator)

	PROFINET EtherNet/IP™ FTP
Electrical connection	M12 male connector, 8-pin, x-coded
<b>User interface</b>	Web server

#### Ambient data

<b>Ambient temperature, operation</b>	0 °C ... +45 °C
<b>Ambient temperature, storage</b>	-20 °C ... +70 °C
<b>Permissible relative humidity</b>	0% ... 90%, non-condensing
<b>Shock load</b>	Half sine 15 g, 11 ms <sup>1)</sup>
<b>Vibration resistance</b>	5 g (58 Hz ... 150 Hz) (IEC 6008-2-6:2007, IEC 60068-2-24:2008)

<sup>1)</sup> IEC 60068-2-27:2008.

#### General notes

<b>Factory calibrated</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

#### Certificates

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

## 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)