PLR3200-02L

PLR

ROBOT GUIDANCE SYSTEMS

SICK
Sensor Intelligence.

Ordering information

Type	part no.
PLR3200-02L	1109802

Other models and accessories ➜ www.sick.com/PLR

Detailed technical data

Features

Tasks	Position determination
Example volume of view (L x W x H)	260 mm x 260 mm (typical)
Measurement range	630 mm ... 880 mm, recommended: 730 mm
Light source	
	Laser, 635 nm, internal
	LED, 630 nm
	Aiming laser, 680 nm
Laser class	2 (IEC 60825-1:2014)
LED class	Risk group 0 (Exempt, IEC62471 : 2006)
Technology	2D snapshot, 3D snapshot, image analysis

Mechanics/electronics

Supply voltage	24 V DC, ± 20 %
Power consumption	10 W, ± 20 %
Current consumption	Typ. 0.7 A Max. 1.2 A, At 24 V DC
Housing material	Aluminum (anodised)
Window material	PMMA
Dimensions (L x W x H)	275 mm x 90 mm x 84 mm
Weight	2.5 kg
Enclosure rating	IP65

Performance

Part localization time	< 600 ms
Localization accuracy	± 0.8 mm, ± 0.2° [1]
Output data	X, Y, Z (mm) roll, pitch, yaw (degrees)

[1] 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 measurment accuracy decreases with increasing distance away from the measurement area.

Interfaces

Ethernet	
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
User interface	Web server

Ambient data

Ambient temperature, operation	0 °C … +45 °C
Ambient temperature, storage	–20 °C … +70 °C
Permissible relative humidity	0% … 90%, non-condensing
Shock load	Half sine 15 g, 11 ms [1]
Vibration resistance	5 g (58 Hz … 150 Hz) (IEC 6008-2-6:2007, IEC 60068-2-24:2008)
UL File No.	E336916

[1] IEC 60068-2-27:2008.

General notes

Factory calibrated	✓

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

Certificates

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

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**

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