



PLOC2D

Easy to use and flexible part localization sensor system

SICK
Sensor Intelligence.



Technical data overview

| | |
|-------------------------------|---|
| System features | Stand-alone sensor with easy teach, for localization of parts using 2D measurements |
| Example field of view | For details see field of view diagram 2000 mm x 2000 mm (depending on type) |
| Working range | 50 mm ... 300 mm 70 mm ... 1,500 mm ≤ 3 m 300 mm ... 1,500 mm |
| Part localization time | < 0.5 seconds for the first part in the image and then < 100 ms for additional parts in the image |
| Localization accuracy | ± 0.5 px, ± 0.1° / +/-1 mm, +/-0.1° (depending on type) |
| Enclosure rating | IP54 IP65 (when using optics cover and male connector) IP65 (depending on type) |

Product description

The PLOC2D is a vision sensor system for localization of parts in 2D. The system is equipped with a high-quality imager combined with high-performance localization algorithm for reliable and fast part localization. The sensor system is self-contained in the IP65 housing and connects directly to the robot controller or PLC and is out of the box ready to use. The user interface is designed and tailored for easy setup and maintenance in the production line.

At a glance

- Ready-to-use function, tailored for measuring the 2D position of parts
- Alignment of robot and sensor system coordinate systems
- Tools and functions for easy calibration of the FLEX versions
- Intuitive interface for setup and service of devices installed in production
- Stand-alone sensor system – no external PC needed

Your benefits

- Ready to use out of the box without further programming
- Easy setup and operation - no expertise of a machine vision specialist required
- Fast and simple calibration of the FLEX versions, alongside a wide range of lens and illumination accessories, ensures easy adaptation to specific requirements
- Powerful teach-in and high measurement accuracy ensure reliable operation
- Very simple integration with specially developed functions for most commonly used robot brands available in the download section
- Easy integration by further robot example programs and functions provided for many other brands available on supportportal.sick.com

Fields of application

- Robot picking of parts from conveyors
- Robot picking from anyfeeders
- Robot packing
- Robot machine maintenance
- Robot picking of kitted parts

Ordering information

Other models and accessories → www.sick.com/PLOC2D

| Integrated applications | Items supplied | Type | Part no. |
|---|---|-------------------------|----------|
| 2D location of parts at standard resolution with a small field of view and short reading distances | Camera with S-mount PLOC2D software Not included with delivery: Optics and illumination | PLOC2D-631S | 1089627 |
| Basic resolution 2D localization of parts in medium fields of view at medium reading distances | Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination | PLOC2D-631C | 1089629 |
| | Camera, complete with integrated optics and illumination PLOC2D software | PLOC2D-621-10RB | 1118608 |
| | | PLOC2D-621-17NIR | 1118607 |
| | | PLOC2D-621-17RB | 1118606 |
| High resolution 2D localization of parts in large fields of view | Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination | PLOC2D-654C | 1087255 |
| High resolution 2D localization of parts, with device factory calibrated for field of view 2000 x 2000 mm at approximately 3 m reading distance | Camera Optics and illumination PLOC2D software | PLOC2D-2000 | 1086007 |
| Medium resolution 2D localization of parts in medium/large fields of view at medium/long reading distances | Camera with C-mount PLOC2D software Not included with delivery: Optics and illumination | PLOC2D-632C | 1089628 |
| | Camera with S-mount PLOC2D software Not included with delivery: Optics and illumination | PLOC2D-632S | 1089643 |
| | Camera, complete with integrated optics and illumination PLOC2D software | PLOC2D-611-12NIR | 1139165 |
| | | PLOC2D-611-12RB | 1130188 |
| | | PLOC2D-611-6NIR | 1139164 |
| | | PLOC2D-611-6RB | 1130189 |
| | | PLOC2D-611-6RB ABB GoFa | 1136307 |
| | | PLOC2D-621-10NIR | 1139166 |

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