



PAIS-E4LO

Pallet Integrity Inspection System

QUALITY CONTROL SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
PAIS-E4L0	1144858

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

Detailed technical data

Features

Variant	Light
Technology	3D laser triangulation
System features	Suitable for placement in small spaces and custom enclosure Inspection of all sides of the pallet
Laser class	2M (EN 60825-1:2014+A11:2021; IEC 60825-1:2014)
Laser color	Red, visible, 660 nm, ± 10 nm
Supported pallets	2 default pallet types: Euro-pallet 1200x800 mmUK / Industrial Pallet 1200x1000 mmPlus possibility to create custom pallet types

Mechanics/electronics

Dimensions, system (L x W x H)	645 mm x 346 mm x 1,169 mm (PAIS system) 665 mm x 356 mm x 786 mm (Control cabinet)
Enclosure rating	Electrical cabinet: IP54 Scanning units: IP65/IP67
Supply voltage	230 V AC ¹⁾
Current consumption	0.6 A, rated current 1.5 A, peak current
Power consumption	140 W, rated power 345 W, peak power
Weight	16 kg, single system 55 kg, Control cabinet 10.4 kg, Cables

¹⁾ 50 Hz.

Performance

Typical object speed	0.5 m/s
3D profile resolution	Up to 0.6 mm/px
Minimum detectable defect	> 3 mm
Typical evaluation time	Approx. 1.5 s

Interfaces

Ethernet	Function
	Service interface
	Data transmission rate
	1,000 Mbit/s

Encoder interface	RS-422 / TTL (DBS36E-BBCP02048)
Configuration interface	Web-Interface
Connection type	Wire terminals, conductors up to 2,5 mm ² (for the power supply)
Digital inputs	3 (isolated)
Digital outputs	2 (isolated)

Ambient data

Ambient temperature, operation	0 °C ... +40 °C
Ambient temperature, storage	-10 °C ... +50 °C
Permissible relative humidity	5% ... 85 %, Non-condensing
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005+AC:2005, EN IEC 61000-6-2:2019

General notes

Items supplied	2x tower without housing 1x electrical cabinet
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Classifications

ECLASS 5.0	27281001
ECLASS 5.1.4	27289090
ECLASS 6.0	27289090
ECLASS 6.2	27289090
ECLASS 7.0	27289090
ECLASS 8.0	27289090
ECLASS 8.1	27289090
ECLASS 9.0	27289090
ECLASS 10.0	27289090
ECLASS 11.0	27289090
UNSPSC 16.0901	52161523

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