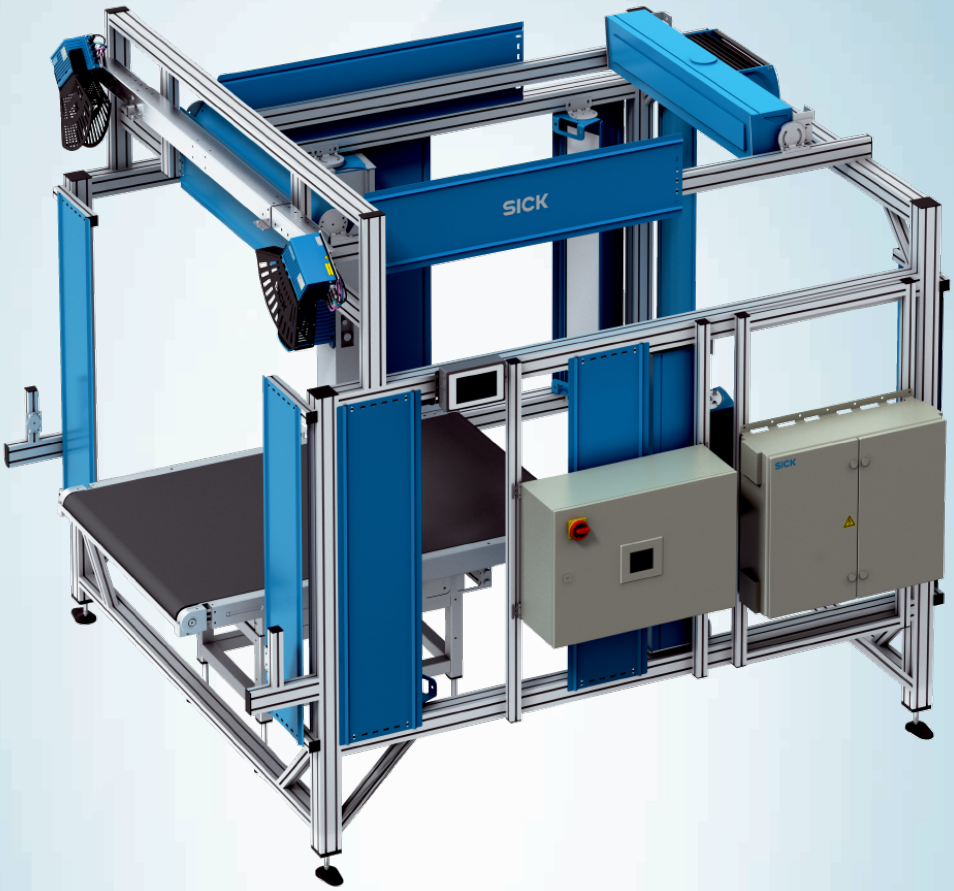
Product family overview



DWS Dynamic

Dynamic identification, measurement and weighing of objects

SICK
Sensor Intelligence.

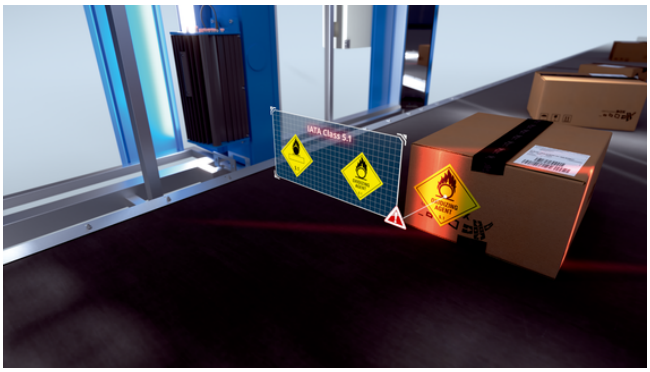
Additional functionalities



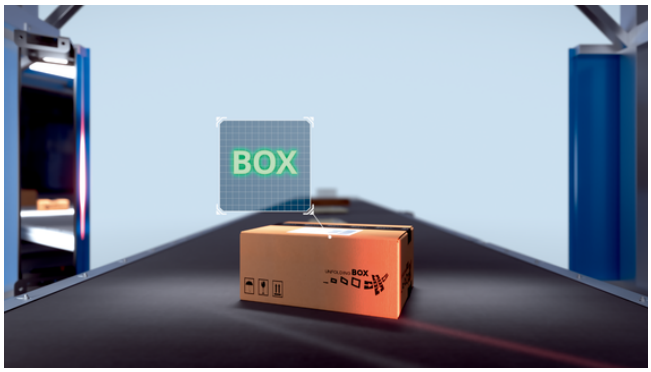
Reliable object verification

The 2D/3D Vision Solutions from SICK offer an additional functionality for any system with an ICR camera. The additional information about the object and label are collected directly within the camera, in parallel to code reading and image acquisition. This enables manual processes to be automated and ensures a reliable object verification in dynamic processes.

2D / 3D Vision Solutions – Additional functionality for track and trace systems



Hazmat Detection
Reliable detection of hazardous goods labels, regardless of label design.

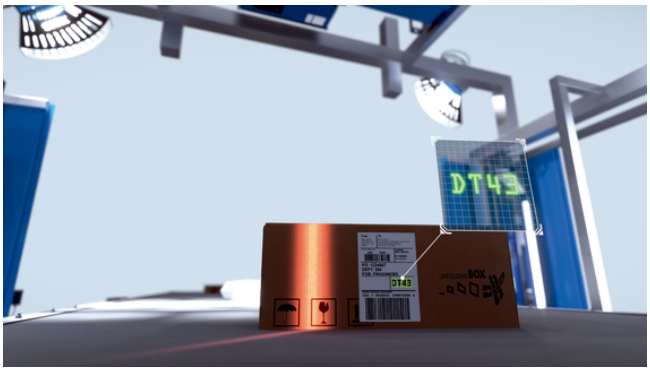


Bag Box Classification
Automatic detection of shipping bags and parcels for efficient sorting, regardless of shape, color and material.

Advantages



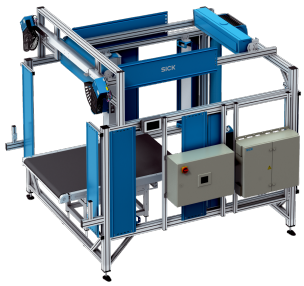
Single Item Verification
Verification of the singulation of cubic and irregular objects. The codes do not need to be visible.



Optical Character Recognition (OCR)
Detection of printed label text in addition to code reading.

Controlled pre-sorting for sorting systems. Additional information for subsequent process steps.

DWS Dynamic



Technical data overview

Industries	Airport CEP and freight Distribution and fulfillment
Transport speed	0.4 m/s ... 3.4 m/s (depending on type)
Minimum object size	50 mm x 50 mm x 20 mm
Maximum object size	1,200 mm x 800 mm x 800 mm (more on request) 410 mm x 410 mm x 200 mm 1,500 mm x 1,000 mm x 800 mm (more on request) 2,200 mm x 1,600 mm x 800 mm (more on request)
Code types	1D 2D PDF417 Aztec 4-state Maxi-Code RFID (depending on type)

Product description

The DWS Dynamic (Dimensioning-Weighing-Scanning) track and trace system identifies, measures and weighs objects dynamically in just one step. Recorded master data makes it possible to automate sorting, storage and conveying tasks. High overall read rates ensure the shortest investment payback times on the market. The modular system setup ensures compatibility with other solutions from SICK and enables adaptations to customer-specific requirements. In addition, the certified system variant enables the use of master data for billing purposes. DWS Dynamic works as a stand-alone solution, but can also be integrated easily into existing conveyor systems.

At a glance

- Identification, weighing and measurement (L/W/H) of objects
- Modular system concept for flexible upgrading and conversion options
- Integrated alibi memory for central storage of LFT data
- Certified according to MID and NTEP (OIML)
- Expanded control of conveyor processes, e.g. for object singulation

Your benefits

- Identify, measure and weigh objects in just one step
- Short investment payback times thanks to very high overall read rates
- Increase in the legal-for-trade (LFT) rate based on a reliable database for automatic billing
- Cost-effective retrofitting due to compatibility with existing SICK solutions
- Shorter downtime thanks to pre-installation and commissioning by SICK
- Flexible area of application and simple system conversion
- Increased system availability thanks to efficient maintenance

Fields of application

- Incoming and outgoing goods in retail and warehousing
- Control of sorting and loading processes
- Billing processes in the CEP industry
- Storage processes in storage and conveyor systems

Ordering information

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

- **Object infeed and outfeed:** automatic, semi-automatic, manual

Allowed weight for legal-for-trade weighing	Scale type	Throughput	Transport speed	Type	Part no.
0,01 kg ... 15 kg	Single scale Double scale	12,000 pph (depending on speed and distribution of object lengths)	≤ 2 m/s	DWS Dynamic Smalls	On request
0,01 kg ... 150 kg	Single scale Double scale Triple scale	5,000 pph (single-belt scale) / 11,000 pph (double-belt scale) / 19,000 pph (triple-belt scale) (depending on speed and distribution of object lengths)	≤ 3.4 m/s	DWS Dynamic Flex	On request
0,025 kg ... 120 kg	Single scale Double scale Triple scale		≤ 3.4 m/s	DWS Dynamic Compact	On request
0,25 kg ... 60 kg	Single scale	1.300 pph (depending on speed and object lenght)	0.4 m/s ... 0.8 m/s	DWS Dynamic Eco	On request

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