



## VMS Contour Verification

Deformation detection for quality control of cubic objects

TRACK AND TRACE SYSTEMS

**SICK**  
Sensor Intelligence.



### Technical data overview

<b>Tasks</b>	Object measurement (non-contact, dynamic) Volume measurement Position determination Deformation detection
<b>Transport speed</b>	(start-stop operation possible)
<b>Accuracy of object coverage</b>	Only valid for dimensioning, not for deformation measurements. $\pm 0.2'' \times \pm 0.2'' \times \pm 0.2''$
<b>Minimum object size</b>	200 mm x 100 mm x 100 mm 8'' x 4'' x 4''
<b>Maximum object size</b>	2,000 mm x 1,000 mm x 1,000 mm 80'' x 40'' x 40''
<b>Output data</b>	XML, ASCII, customer protocol

### Product description

The VMS Contour Verification track and trace system is a non-contact dimensioning system for dynamic measurement of objects on conveyor belts. It is able to detect deformations on cubic objects for all six sides, allowing it to prevent problems such as downtime in automated storage facilities. Software developed specifically for the system detects even the tiniest deformations, providing a perfect monitoring tool for goods storage and retrieval processes. The modular system construction ensures compatibility with existing solutions from SICK and enables adaptations to customer-specific applications.

### At a glance

- Measurement accuracy up to 5 mm x 5 mm x 5 mm
- Maximum object size up to 2.000 mm x 1.000 mm x 1.000 mm
- Conveying speeds of up to 2.0 m/s
- Deformations detectable down to 10 mm
- Output of 3D point cloud data possible
- Two zones with adjustable tolerance for the degree of deformation

### Your benefits

- Quick and efficient dimensioning thanks to dynamic inline object measurement
- Quality inspection of moving cubic objects for all six sides
- Increased system throughput thanks to non-contact contour verification
- Range of options: stand-alone solution or in combination with reading station and weighing technology
- Increased system availability and reduction in operating costs thanks to short MTTR

### Fields of application

- Reduced downtime in fully automated warehouses and distribution centers
- Cost and effort reduction thanks to simple quality control of incoming and outgoing shipments
- Master data acquisition for the optimization of automatic storage and transport processes

### Ordering information

Other models and accessories → [www.sick.com/VMS\\_Contour\\_Verification](http://www.sick.com/VMS_Contour_Verification)

Maximum object size	Accuracy of object coverage	Minimum detectable deformation	Type	Part no.
2,000 mm x 1,000 mm x 1,000 mm 80'' x 40'' x 40''	Only valid for dimensioning, not for deformation measurements. $\pm 0.2'' \times \pm 0.2'' \times \pm 0.2''$	-10 mm <sup>1)</sup>	VMS4400CV	On request

<sup>1)</sup> (from enveloping box), no specification on achievable accuracy for measured deformations, no distinction between convex and concave deformation structure, holes can not be detected.

## 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)