TriSpector1000
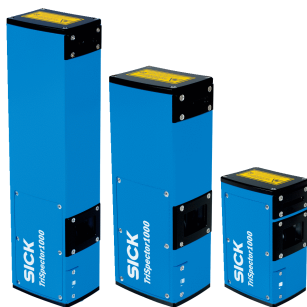
Configurable, intuitive, and reliable 3D inspection of moving parts

SICK
Sensor Intelligence.

TriSpector1000

Technical data overview

Technology	3D triangulation
Scan/frame rate	5,000 3D profiles/s
Factory calibrated	✓
Enclosure rating	IP67
Configuration software	SOPAS ET / SICK AppStudio (depends on variant)
Ethernet	✓ / TCP/IP / ✓ / TCP/IP / FTP / HTTP (depends on variant)
Serial	✓ / RS-232 / RS-422 / encoder (RS-422 / DBS36E-BBCP02048) / ✓ / RS-232 / RS-422 (depends on variant)
Incremental	✓, TTL

Product description

The TriSpector1000 is a stand-alone configurable sensor for cost-efficient 3D inspections. No matter what the shape, color or orientation of the product, the sensor is up to the challenge. Now content, completeness and emptiness can be verified in all dimensions. It is perfectly suited for solving quality control applications in the consumer goods and packaging industry. Thanks to its intuitive user interface, the TriSpector1000 ensures easy commissioning and operation. Even quick device replacement is easy with guaranteed field of view and re-use of saved settings.

At a glance

• 3D inspection of moving parts
• Intuitive user interface
• Embedded image analysis
• Easy replacement concept
• High resolution 3D image with intensity overlay
• Factory calibrated 3D data, true mm values in all dimensions
• Rugged IP67 metal housing

Your benefits

• Reliable 3D inspection even when part color, position and height varies
• Easy commissioning and operation thanks to an intuitive user interface
• Embedded image analysis for fast configuration
• Quick device replacement due to guaranteed field of view and re-use of saved settings
• Intensity data enhances 3D navigation, allows checking presence of label, printed pattern or object rotation.
• Factory calibrated data simplifies setup and reduces time and effort
• Withstands harsh or food processing environments

Fields of application

• Quality control in consumer goods; volume and thickness measuring, counting and positioning of objects
• Box integrity including content verification, completeness and emptiness check
• Product dimensioning in food processing

Ordering information

Other models and accessories ➜ www.sick.com/TriSpector1000

- **Product version:** TriSpector1008
- **Working distance:** 56 mm … 116 mm
- **Example field of view:** 65 mm x 15 mm
- **Width at maximum operating distance:** ≤ 75 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T11S-MR12A7	1075604
PMMA	V3T11S-MR12A8	1060426

- **Product version:** TriSpector1060
- **Working distance:** 291 mm … 1,091 mm
- **Example field of view:** 540 mm x 200 mm
- **Width at maximum operating distance:** ≤ 660 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T13S-MR62A7	1075605
PMMA	V3T13S-MR62A8	1060428

- **Product version:** TriSpector1030
- **Working distance:** 141 mm … 541 mm
- **Example field of view:** 270 mm x 100 mm
- **Width at maximum operating distance:** ≤ 330 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T12S-MR32A7	1072923
PMMA	V3T12S-MR32A8	1060427

- **Product version:** TriSpector 3D Belt Pick Programmable
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Working distance	Example field of view	Width at maximum operating distance	Window material	Type	Part no.
141 mm … 541 mm	270 mm x 100 mm	≤ 330 mm	Glass	V3T12P-MR32A7S50	1106177
			PMMA	V3T12P-MR32A8S50	1106180
291 mm … 1,091 mm	540 mm x 200 mm	≤ 660 mm	Glass	V3T13P-MR62A7S50	1106181
			PMMA	V3T13P-MR62A8S50	1106182

TriSpector1000

- **Product version:** TriSpector1008 Programmable
- **Working distance:** 56 mm ... 116 mm
- **Example field of view:** 65 mm x 15 mm
- **Width at maximum operating distance:** ≤ 75 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T11P-MR12A7	1091322
PMMA	V3T11P-MR12A8	1091318

- **Product version:** TriSpector1030 Programmable
- **Working distance:** 141 mm ... 541 mm
- **Example field of view:** 270 mm x 100 mm
- **Width at maximum operating distance:** ≤ 330 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T12P-MR32A7	1091321
PMMA	V3T12P-MR32A8	1091319

- **Product version:** TriSpector1060 Programmable
- **Working distance:** 291 mm ... 1,091 mm
- **Example field of view:** 540 mm x 200 mm
- **Width at maximum operating distance:** ≤ 660 mm
- **Scan/frame rate:** 5,000 3D profiles/s
- **Data points/profile:** 1,536

Window material	Type	Part no.
Glass	V3T13P-MR62A7	1091323
PMMA	V3T13P-MR62A8	1091320

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:

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