

SICK Sensor Intelligence.

3D MACHINE VISION

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Ordering information

Туре	Part no.
V3T12P-MR32A8S50	1106180

Other models and accessories -> www.sick.com/TriSpectorP1000



Detailed technical data

Features	
Technology	3D triangulation
Pre-calibrated	✓
Product category	Programmable
Toolkit	SICK algorithm API HALCON 3D Belt Pick SensorApp
Working distance	141 mm 541 mm
Example field of view	270 mm x 100 mm
Illumination	Integrated
Illumination color	Red, laser, Visible, 660 nm, ± 7 nm
Laser class	2 (EN 60825-1:2014+A11:2021; IEC 60825-1:2014, Complies with the FDA performance re- quirements for laser products except for conformance with IEC 60825-1 Ed.3., as described in Laser Notice 56 dated May 8, 2019.)
Factory calibrated	✓
Width at minimum operating distance	90 mm
Width at maximum operating distance	330 mm
Maximum height range	400 mm
Imaging angle	65°
Offline support	Emulator
Task	Detecting - Standard objects Detecting - Level Measuring - Dimension, contour and volume Measuring - Number Monitoring and controlling - Quality Determining position - 3D position determination
Mechanics/electronics	
Connection type	M12, 12-pin male connector, A-coded (voltage supply, I/O) M12, 8-pin socket, X-coded (Gigabit Ethernet) M12, 8-pin female connector, A-coded (encoder)
Connector material	Nickel plated brass

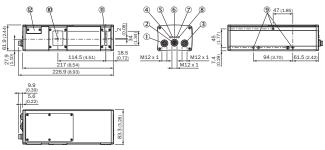
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Supply voltage	24 V, ± 20 %
Ripple	< 5 V _{pp}
Power consumption	≤ 11 W
Current consumption	< 400 mA, without output load
Enclosure rating	IP67
Protection class	III
Housing material	Anodized aluminum
Window material	PMMA
Weight	1.3 kg
Dimensions (L x W x H)	217 mm x 62 mm x 84 mm
Performance	
Scan/frame rate	5,000 3D profiles/s
Maximum number of profiles	2,500 Per image
Data points/profile	1,536
Height resolution	40 μm 280 μm
3D profile resolution	0.215 mm/px
Interfaces	
Ethernet	✓, TCP/IP
Function	FTP, HTTP
Data transmission rate	≤ 1,000 Mbit/s
Serial	✓, RS-232, RS-422
Operator interfaces	Web server
Configuration software	SICK AppStudio
Digital input	3 inputs
Configurable outputs	4 inputs/outputs
Encoder interface	RS-422 / TTL
Maximum encoder frequency	Max. 300 kHz
Ambient data	
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005 / EN 61000-6-3:2007
Shock load	15 g / 6 ms (EN 60068-2-27)
Vibration load	5 g, 10 Hz 150 Hz (EN 60068-2-6)
Ambient operating temperature	0 °C +50 °C
Storage temperature	-20 °C +70 °C
Classifications	
ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205
ECLASS 8.0	27310205
ECLASS 8.1	27310205

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ECLASS 9.0	27310205
ECLASS 10.0	27310205
ECLASS 11.0	27310205
ECLASS 12.0	27310205
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	43211731

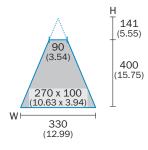
Dimensional drawing (Dimensions in mm (inch))

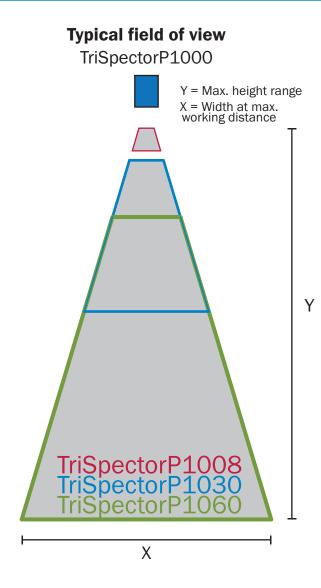


- ① Connector Encoder (thread inside)
- ② Gigabit Ethernet connection (GbE)
- ③ Connector Power I/O (thread inside)
- ④ LED; On
- ⑤ LED; State
- 6 LED; Link/Data
- ⑦ LED; Result ⑧ LED; Laser
- (9) Fastening threads (M5 x 8.5 mm length) 1 Optical receiver (center)
- ① Optical sender (center)
- 12 Micro SD memory card

Field of view

TriSpectorP1030 Typ. field of view in mm (inch)

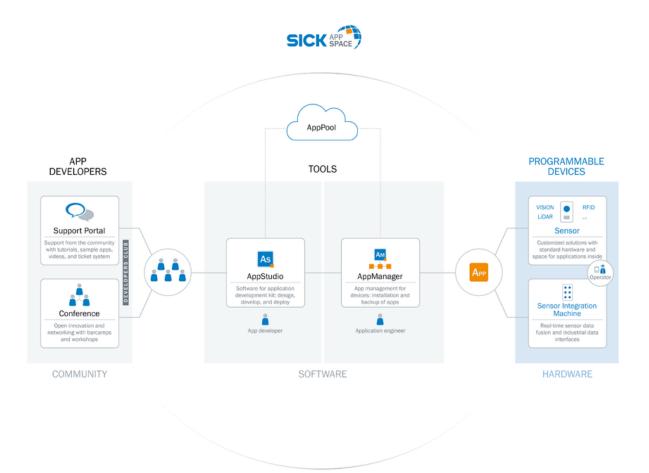




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Overview

SICK AppSpace



Recommended accessories

Other models and accessories -> www.sick.com/TriSpectorP1000

	Brief description	Туре	Part no.
Sets and kits			
	3D belt pick accessory set with 5 m power I/O cable, 5 m gigabit Ethernet cable, 5 m sensor/actuator cable, encoder terminal and mounting bracket for TriSpectorP1000	3D belt pick accessory set	1103512
Incremental e	ncoders		
(e	 Mechanical design: Solid shaft face mount flange 10 mm x 19 mm Communication interface: 4.5 V 32 V, TTL, HTL, programmable Connection type: Male connector, M12, 8-pin, radial Pulses per revolution: 10,000 	DFS60B-S4PC10000	1036721

Recommended services

Additional services -> www.sick.com/TriSpectorP1000

	Туре	Part no.
Extended warranty		
 Product area: Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671

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



Online data sheet

