



V3T13P-MR62A7 TriSpectorP1000

SICK Sensor Intelligence.

3D MACHINE VISION

V3T13P-MR62A7 | TriSpectorP1000

3D MACHINE VISION



Ordering information

Туре	Part no.
V3T13P-MR62A7	1091323

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
Working distance	291 mm 1,091 mm
Example field of view	540 mm x 200 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	180 mm
Width at maximum operating distance	660 mm
Maximum height range	800 mm
Imaging angle	67°
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-nin male connector A -coded (voltage supply $1/0$)

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)

V3T13P-MR62A7 | TriSpectorP1000 3D MACHINE VISION

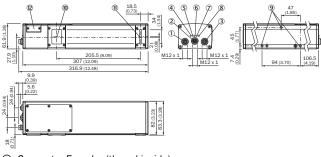
Connector material	Nickel plated brass
Supply voltage	24 V, ± 20 %
Ripple	< 5 V _{pp}
Power consumption	≤ 11 W
Current consumption	< 400 mA, without output load
Enclosure rating	IP67
Protection class	III
Housing material	Anodized aluminum
Window material	Glass
Weight	1.7 kg
Dimensions (L x W x H)	307 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	80 μm 670 μm
3D profile resolution	0.43 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

V3T13P-MR62A7 | TriSpectorP1000

3D MACHINE VISION

ECLASS 8.1	27310205
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))



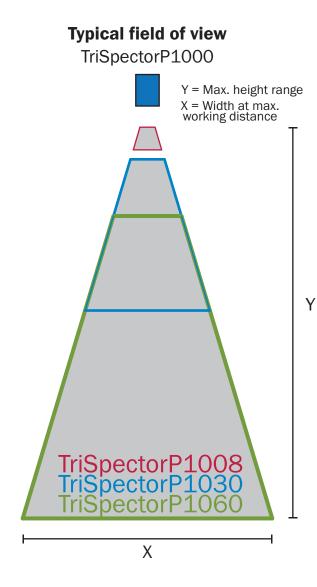
- ① Connector Encoder (thread inside)
- ② Gigabit Ethernet connection (GbE)
- ③ Connector Power I/O (thread inside)
- ④ LED; On
- ⑤ LED; State
- 6 LED; Link/Data
- ⑦ LED; Result
- ⑧ LED; Laser
- (9) Fastening threads (M5 x 8.5 mm length)
- Optical receiver (center)
- (1) Optical sender (center)
- 12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

Field of view

TriSpectorP1060 Typ. field of view in mm (inch)



(31.50)

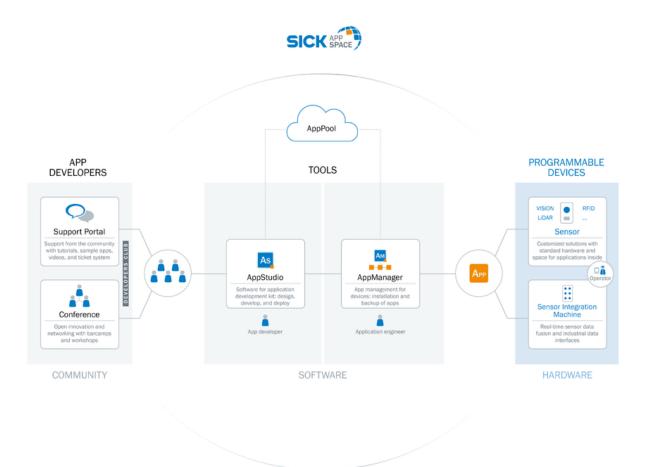


V3T13P-MR62A7 | TriSpectorP1000

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Overview

SICK AppSpace



Recommended accessories

Other models and accessories → www.sick.com/TriSpectorP1000

	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket set consisting of mounting bracket, cooling plate, includes angle display for setting the tilt angle	Mounting bracket	2076735
Others			
	 Connection type head A: Male connector, M12, 5-pin, straight Connection type head B: Flying leads Cable: 2 m Description: Shielded Connection systems: Flying leads 	Connecting cable	6024860

V3T13P-MR62A7 | TriSpectorP1000 3D MACHINE VISION

	Brief description	Туре	Part no.
	 Connection type head A: Female connector, M12, 12-pin, straight Connection type head B: Male connector, M12, 5-pin, straight Signal type: Power Cable: 0.25 m Description: Power, Cable for connecting a TriSpector to power supply unit 2079609 	YF2A6B- C25XXXM2A15	2079766
ASS	 Connection type head A: Female connector, M12, 8-pin, straight, A-coded Connection type head B: Male connector, M12, 8-pin, straight, A-coded Signal type: Sensor/actuator cable Cable: 2 m, 8-wire, PUR, halogen-free Description: Sensor/actuator cable, shielded Application: Zones with oils and lubricants, Drag chain operation 	YF2A28- 020UA6M2A28	2096105
	 Connection type head A: Male connector, M12, 8-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 8-wire, PVC Description: Sensor/actuator cable, shielded Application: Zones with chemicals 	YM2A28- 050VA6XLEAX	2096233
11	 Connection type head A: Male connector, M12, 8-pin, straight, X-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet, Gigabit Ethernet Cable: 2 m, 8-wire, PUR, halogen-free Description: Ethernet, Gigabit Ethernet, shielded Application: Zones with oils and lubricants 	YM2X18- 020EG1MRJA8	2106258
11	 Connection type head A: Male connector, M12, 8-pin, straight, X-coded Connection type head B: Male connector, RJ45, 8-pin, straight Signal type: Ethernet, Gigabit Ethernet Cable: 3 m, 8-wire, PUR, halogen-free Description: Ethernet, Gigabit Ethernet, shielded Application: Zones with oils and lubricants 	YM2X18- 030EG1MRJA8	2145693
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

