



V2D621P-2MSFBB5S50

InspectorP62x

2D MACHINE VISION







Ordering information

Туре	Part no.
V2D621P-2MSFBB5S50	1111870

Support for this product is possibly not yet available in your market. Please contact your local SICK subsidiary for more information

Other models and accessories → www.sick.com/InspectorP62x



Detailed technical data

Features

reatures		
Technology	2D snapshot	
Product category	Programmable, configurable	
SensorApp	Nova Inspector	
License included	Intelligent Inspection License	
Toolkit	HALCON	
Sensor	CMOS matrix sensor, grayscale values	
Shutter technology	Global-Shutter	
Optical focus	Adjustable focus (electric)	
Working distance	70 mm 1,500 mm ¹⁾	
Illumination	Integrated	
Red, LED, Visible, 617 nm, ± 15 nm Blue, LED, Visible, 470 nm, ± 15 nm		
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm	
Alignment aid	Laser, Red, 630 nm 680 nm	
Laser class	1, complies with 21 CFR 1040.10 except for the conformance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1:2014, EN 60825-1:2014)	
LED class	Risk group 1 (IEC 62471 (2006-07) / EN 62471 (2008-09))	
Spectral range	Approx. 400 nm 900 nm	
Lens		
Focal length	9.6 mm	
Task	Detecting - Standard objects Measuring - Dimension, contour and volume Measuring - Number Identifying - 2D code Identifying - OCR Identifying - Pattern Identifying - Classifying Identifying - Sorting	

 $^{^{1)}}$ For details see field of view diagram.

Determining position - 2D position determination

Mechanics/electronics

Connection type	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M12, 4-pin female connector (Ethernet)
Supply voltage	12 V DC 24 V DC, ± 10 %
Power consumption	Typ. 4 W
Enclosure rating	IP65 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Protection class	III
Housing material	Aluminum die cast
Window material	PMMA
Weight	170 g
Dimensions (L x W x H)	71 mm x 43 mm x 35.6 mm
MTBF	75,000 h

Performance

Sensor resolution	1,280 px x 1,024 px (1.3 Mpixel)
Scan/frame rate	50 Hz

Interfaces

Serial	√ , RS-232, RS-422
Remark	Not yet available in the pre-installed Intelligent Inspection SensorApp
Data transmission rate	300 Baud 115.2 kBaud
Ethernet	√ , TCP/IP
Function	FTP, HTTP
Data transmission rate	10/100 MBit/s
CAN	√
Remark	Not yet available in the pre-installed Intelligent Inspection SensorApp
Function	SICK CAN sensor network (CAN controller/CAN device)
EtherNet∕IP™	√
Data transmission rate	10/100 MBit/s
EtherCAT	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600
Remark	Not yet available in the pre-installed Intelligent Inspection SensorApp
PROFINET	✓
Function	PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	10/100 MBit/s
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Remark	Not yet available in the pre-installed Intelligent Inspection SensorApp
Operator interfaces	Web server
Configuration software	Web GUI (SensorApp configuration), SICK AppStudio (programming)

 $^{^{1)}\,\}mathrm{Not}\,\mathrm{yet}$ available in the pre-installed Intelligent Inspection SensorApp.

 $^{^{1)}}$ For details see field of view diagram.

Data storage and retrieval	Image and data logging via microSD memory card and external FTP	
Inputs/outputs	2 opto-decoupled inputs, 4 inputs/outputs, configurable	
Output current	≤ 100 mA	
Maximum encoder frequency	300 Hz	
External illumination	Via digital output (max. 24 V trigger)	
Control elements	2 buttons ¹⁾	
Optical indicators	16 LEDs (5 status displays, 10 LED bar graphs, 1 green/red feedback spot)	
Acoustic indicators	Beeper ¹⁾	

 $^{^{1)}\,\}mathrm{Not}\,\mathrm{yet}$ available in the pre-installed Intelligent Inspection SensorApp.

Ambient data

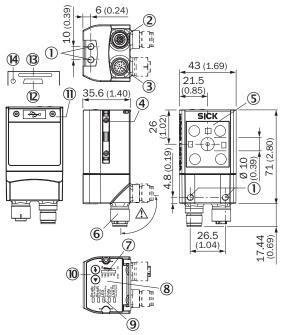
Shock load	EN 60068-2-27:2009-05
Vibration load	EN 60068-2-6:2008-02
Ambient operating temperature	0 °C +50 °C ¹⁾
Storage temperature	-20 °C +70 °C ¹⁾

 $^{^{1)}}$ Permissible relative humidity: 0% ... 90% (non-condensing).

Classifications

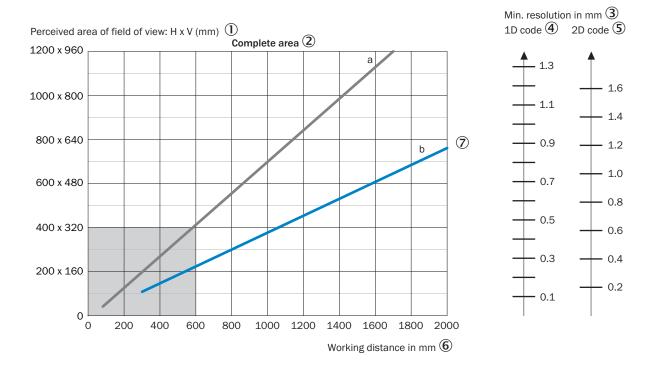
ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205
ECLASS 8.0	27310205
ECLASS 8.1	27310205
ECLASS 9.0	27310205
ECLASS 10.0	27310205
ECLASS 11.0	27310205
ECLASS 12.0	27310205
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	43211731

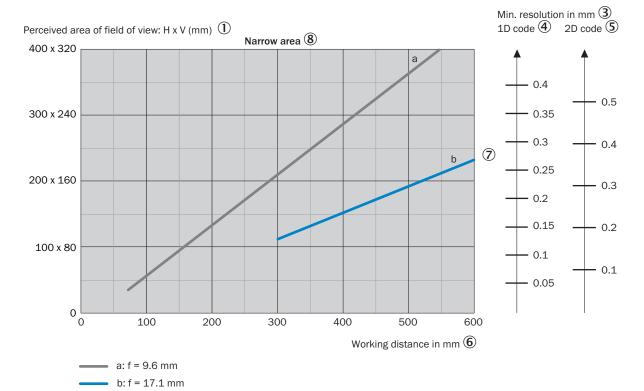
Dimensional drawing (Dimensions in mm (inch))



- ① M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ② "Ethernet" connection, 4-pin M12 female connector, D-coded
- ③ "Power/Serial Data/CAN/I/O" connection, 17-pin M12 male connector, A-coded
- ④ Sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- ⑤ Reading window with internal illumination LEDs (4 x)
- 6 Swivel connector unit
- ⑦ Bar graph
- 8 Beeper (under housing cover)
- Function button (2 x)
- ① Cover (flap)
- $@ \ \text{``USB'' connection (female connector, 5-pin, type Micro-B) interface for temporary use (service) } \\$
- Slot for microSD memory card
- (4) LED for microSD memory card

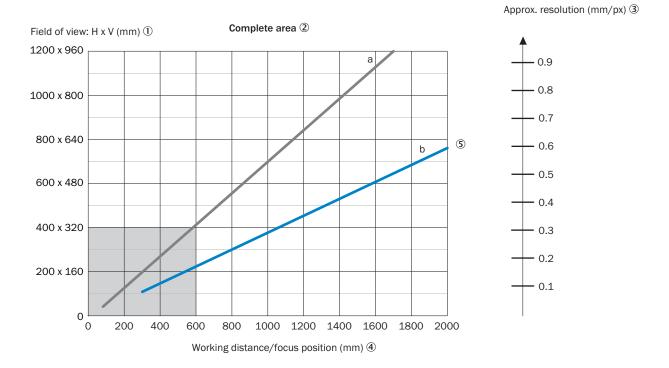
Field of view

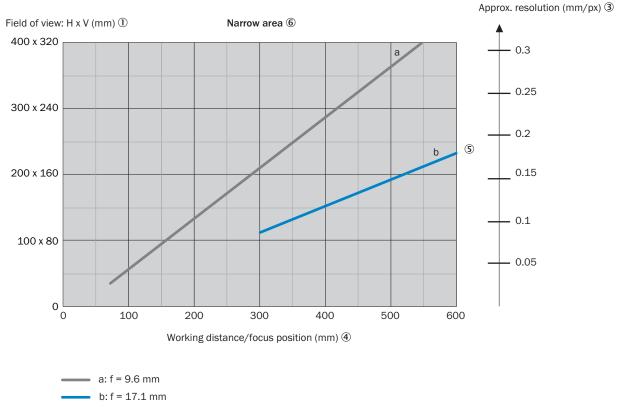




- ① Perceived field of view area: horizontal x vertical (mm)
- ② Complete area
- 3 Minimum resolution in mm
- ④ 1D code
- ⑤ 2D code
- **(6)** Working distance in mm
- \bigcirc Focal length of lens, here example for f = 17.1 mm

® Close range





Take into account the following aspects when designing the application: the field of view geometry of the device, and the position of the field of view in the space in front of the device. Possible angles at which the objects can arise in relation to the device. For the planned working distance: resultant field of view length and width as well as the approximate resolution.

- 1 Field of view: Horizontal x vertical in mm
- ② Complete area

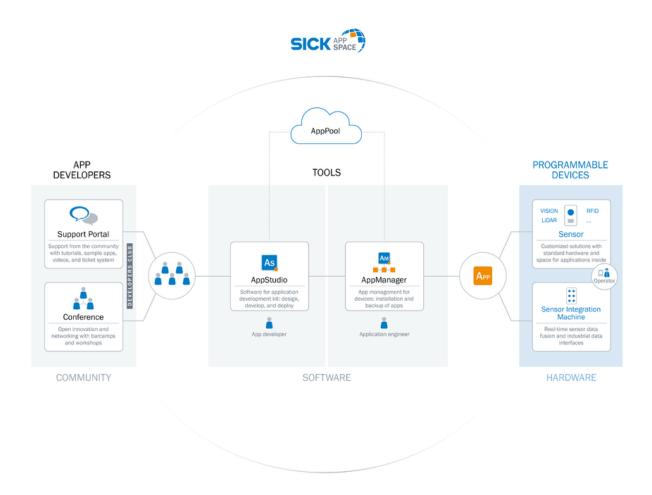
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2D MACHINE VISION

- 3 Approximate resolution in mm/px
- Working distance/Focus position in mm
- (5) Focal length of lens, here example for f = 17.1 mm
- 6 Narrow range

Overview

SICK AppSpace



Recommended accessories

Other models and accessories → www.sick.com/InspectorP62x

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
	Bracket with adapter board	Mounting bracket	2042902

	Brief description	Туре	Part no.
Others			
	 Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Male connector, M12, 17-pin, straight, A-coded Signal type: Power, serial, CAN, digital I/Os Cable: 3 m, 17-wire Description: Power, serial, CAN, digital I/Os, suitable for 2 A, shielded, to connection module CDB650 Application: Drag chain operation 	YM2A8D- 030XXXF2A8D	6051194
88	 Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, PROFINET, shielded Application: Drag chain operation, Zones with oils and lubricants 	YM2D24- 020PN1MRJA4	2106182
Modules			
	 Accessory group: 4DproConnectivity Product family: Connection Device Basic Sub product family: CDB650 Supported products: Lector series, CLV62x - CLV64x (depending on type), CLV69x, RFID read/write device, InspectorP series Brief description: Connection device basic for connecting one sensor with 2 A fuse, 5 cable glands and RS-232 interface to sensor via M12, 17-pin female connector, all outputs available on screw/spring-loaded terminals. 	CDB650-204	1064114

Recommended services

Additional services → www.sick.com/InspectorP62x

	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

