



V2D621R-2MRLBE5

Lector62x

IMAGE-BASED CODE READERS





Ordering information

Туре	Part no.
V2D621R-2MRLBE5	1085378

Other models and accessories → www.sick.com/Lector62x



Detailed technical data

Features

Optical focus	Adjustable focus (electric)
Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	1,280 px x 1,024 px
Illumination	Integrated
Illumination color	Red, LED, Visible, 617 nm, ± 15 nm
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm
LED class	1 (IEC 62471:2006-07, EN 62471:2008-09)
Laser class	EN 60825-1:2014+A11:2021
Lens	
Focal length	9.6 mm
Reading distance	70 mm 1,500 mm ^{1) 2)}
Scanning frequency	25 Hz
Code resolution	≥ 0.05 mm ²⁾

 $^{^{1)}}$ Valid for Data Matrix, PDF417, and 1D codes with good print quality.

Mechanics/electronics

Connection type	1 x 15-pin D-Sub HD male connector (0.9 m)
Supply voltage	12 V DC 24 V DC, ± 20 %
Power consumption	Typ. 4 W
Housing	Aluminum die cast
Housing color	Light blue (RAL 5012)

 $^{^{1)}}$ Swivel connector is 17.8 mm longer.

 $^{^{2)}\,\}mbox{For details}$ see reading field diagram.

Window material	Plastic
Enclosure rating	IP65 (EN 60529, EN 60529/A2)
Protection class	III
Electrical safety	EN 62368
Weight	170 g
Dimensions (L x W x H)	71 mm x 43 mm x 35.6 mm ¹⁾
MTBF	75,000 h

¹⁾ Swivel connector is 17.8 mm longer.

Performance

Readable code structures	1D codes, Stacked, 2D codes
Bar code types	GS1-128 / EAN 128, UPC / GTIN / EAN, Interleaved 2 of 5, Pharmacode, GS1 DataBar, Code 39, Code 128, Codabar, Code 32, Code 93, Plessey Code, MSI/Plessey, Telepen, postal codes
2D code types	Data Matrix ECC200, GS1 Data-Matrix, PDF417, PDF417 Truncated, QR code, MaxiCode
No. of codes per reading interval	150
No. of characters per reading interval	500 (for multiplexer function in CAN operation)

Interfaces

PROFINET		✓
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
	Function	PROFINET Single Port, PROFINET Dual Port
EtherCAT		√
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Serial		√ , RS-232, RS-422
	Function	Data interface (read result output), Service interface
	Data transmission rate	0.3 kBaud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN		√
	Function	SICK CAN sensor network CSN (CAN controller/CAN device, multiplexer/server)
	Data transmission rate	20 kbit/s 1 Mbit/s
CANopen		√
	Data transmission rate	20 kbit/s 1 Mbit/s
PROFIBUS DP		√
	Type of fieldbus integration	Optional over external fieldbus module CDF600-2
Digital inputs		4 ("Sensor 1", "Sensor 2", 2 inputs via optional parameter storage CMC600 in CDB620/ CDM420)
Digital outputs		4 ("Result 1", "Result 2", 2 outputs via CMC and CDB620/CDM420 or "Result 1", "Result 2", "Result 3", "Result 4" when using the 17-wire cable with open cable end)
Reading pulse		Digital inputs, non-powered, serial interface, CAN, auto pulse, presentation mode
Optical indicators		16 LEDs (5 x status display, 10 x LED bar graph, 1 green feedback spot)
Acoustic indicator	s	Beeper/buzzer (can be switched off, can be assigned a function to signal a result)
Control elements		2 buttons (choose and start/stop functions)
Operator interface	s	Web server
Configuration soft	ware	SOPAS ET
Data storage and	retrieval	Image and data storage via microSD memory card and external FTP
Configuration soft	ware	SOPAS ET

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IMAGE-BASED CODE READERS

Maximum encoder frequency	300 Hz
External illumination control	Via digital output (max. 24 V trigger)

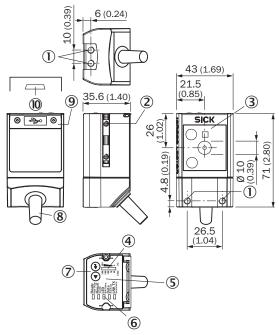
Ambient data

Electromagnetic compatibility (EMC)	EN 61000-6-2:2005-08 / EN 61000-6-4 (2007-01) + A1 (2011)
Vibration resistance	EN 60068-2-6:2008-02
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	0 °C +50 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing
Ambient light immunity	2,000 lx, on code

Classifications

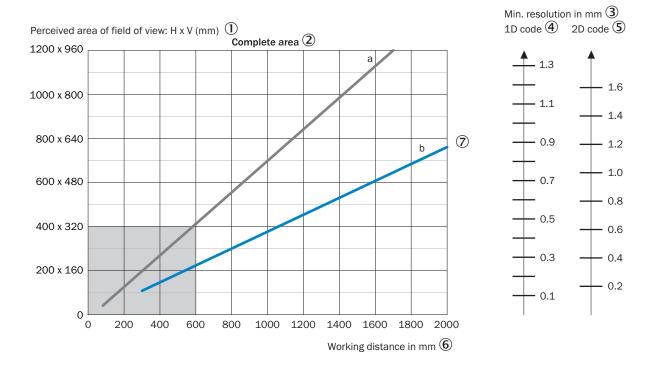
ECLASS 5.0	27280103
ECLASS 5.1.4	27280103
ECLASS 6.0	27280103
ECLASS 6.2	27280103
ECLASS 7.0	27280103
ECLASS 8.0	27280103
ECLASS 8.1	27280103
ECLASS 9.0	27280103
ECLASS 10.0	27280103
ECLASS 11.0	27280103
ECLASS 12.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002999
ETIM 8.0	EC002999
UNSPSC 16.0901	43211701

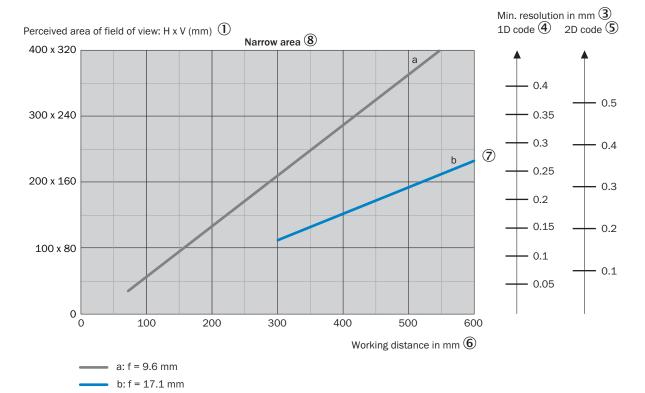
Dimensional drawing (Dimensions in mm (inch))



- ① M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ② Sliding nut M5, 5 mm deep (2 x), for mounting (as alternative)
- 3 Reading window with internal illumination LEDs (2 x)
- ④ Bar graph
- ⑤ Beeper (under housing cover)
- ⑥ LEDs for status display (2 levels), 5 x
- 7 Function button (2 x)
- (3) Cable (0.9 m) permanently attached to device with male connector, D-Sub-HD, 15-pin (connection "Power/Serial Data/CAN/I/O")
- Over (flap)
- @ "USB" connection (female connector, 5-pin, type Micro-B) interface for temporary use (service)

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
- **®** Working distance in mm
- \bigcirc Focal length of lens, here example for f = 17.1 mm

® Close range

Recommended accessories

Other models and accessories → www.sick.com/Lector62x

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
	Bracket with adapter board	Mounting bracket	2042902
Plug connecto	ors and cables		
100	 Connection type head A: Male connector, USB-A Connection type head B: Male connector, Micro-B Signal type: USB 2.0 Cable: 2 m Description: USB 2.0, unshielded 	USB cable	6036106
10	 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			
	 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
1000	Sub product family: CDF600-2 PROFIBUS DP Supported products: Lector® series, CLV61x - CLV65x, CLV69x, RFID read/write device, Mobile handheld scanners Brief description: Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: 2 x M12, male connector/female connector, 5-pin)	CDF600-2100	1058965
	Sub product family: CDF600-2 PROFIBUS DP Supported products: Lector® series, CLV61x - CLV65x, CLV69x, RFID read/write device, Mobile handheld scanners Brief description: Fieldbus proxy/gateway for connecting identification sensors to PROFIBUS-DP networks (PROFIBUS interface: 1 x D-Sub, female connector, 9-pin)	CDF600-2103	1058966

Recommended services

Additional services → www.sick.com/Lector62x

	Туре	Part no.
Performance check		
 Product area: Image-based code readers Range of services: Inspection of defined functions, e.g., reading performance Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Performance check Lector	1608207
Maintenance		
 Product area: Image-based code readers Range of services: Inspection, analysis and restoring of defined functions, Inspection and adaptation of previously defined functions of possible Lector6xx illumination, code configuration, trigger and digital inputs, interfaces and digital outputs as well as data processing Duration: Additional work will be invoiced separately Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. 	Maintenance Lector	1611421
Commissioning		
 Product area: Image-based code readers Range of services: Inspection of connection, fine adjustment, optimization of parameters of SICK product as well as tests, Set-up of previously defined functions of possible illumination, code configuration, trigger and digital inputs, interfaces and digital outputs as well as data processing Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning Lector	1608206
Extended warranty		
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors 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."

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