SICK.COM



DATA SHEET

V2D621R-2MREBE5

Lector62x
Image-based code readers

SICK Sensor Intelligence



IMAGE-BASED CODE READERS

V2D621R-2MREBE5

ORDERING INFORMATION

Type	part no.
V2D621R-2MREBE5	1132935

Further device versions and accessories at www.sick.com/Lector62x

DETAILED TECHNICAL DATA

FEATURES

Technology	2D snapshot, Image-based code reading
Variant	Complete device
Optical focus	Adjustable focus (electrical)
Sensor	CMOS monochrome
Sensor resolution	1,280 px x 1,024 px (1.3 MP)
Illumination	Integrated
Illumination color	Red, LED, Visible, 617 nm, ± 15 nm
LED class	1 (IEC 62471:2006-07, EN 62471:2008-09)
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm
Laser class	EN 60825-1:2014+A11:2021
Lens	
Focal length	9.6 mm
Scanning frequency	25 Hz
Code resolution	≥ 0.05 mm [1]
Working range	70 mm ... 1,500 mm [1]
$MTTF_D$	270 years

[1] For details see reading field diagram.

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 material	Aluminum die cast
Housing color	Light blue (RAL 5012)
Window material	Plastic

[1] Swivel connector is 17.8 mm longer.

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]

[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	1 ... 50
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 indicators	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 interfaces	Web server
Configuration software	SOPAS ET
Data storage and retrieval	Image and data storage via microSD memory card and external FTP
EncoderFrequency	Max. 300 Hz
External illumination control	Via digital output (max. 24 V trigger)

AMBIENT DATA

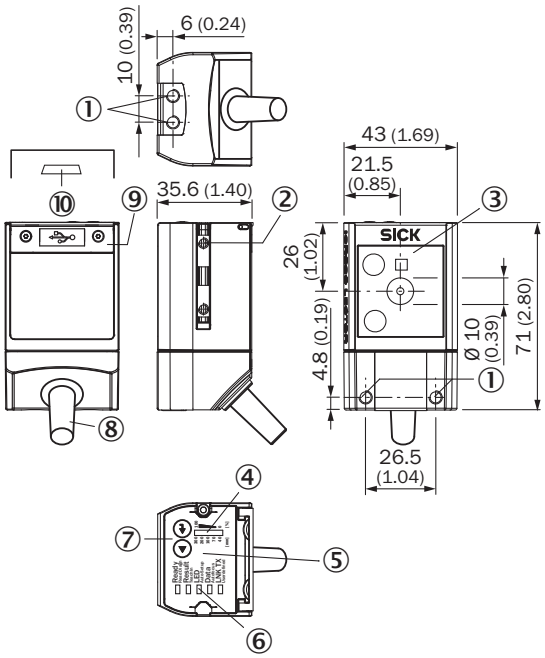
Electromagnetic compatibility (EMC)	EN 61000-6-2:2005-08 / EN 61000-6-4 (2007-01) + A1 (2011)
Vibration resistance	EN 60068-2-6:2008-02
Shock resistance	EN 60068-2-27:2009-05
Ambient operating temperature	0 °C ... +50 °C
Storage temperature	–20 °C ... +70 °C
Relative humidity	90 %, Non-condensing

Ambient light immunity	2,000 lx, on code

CERTIFICATES

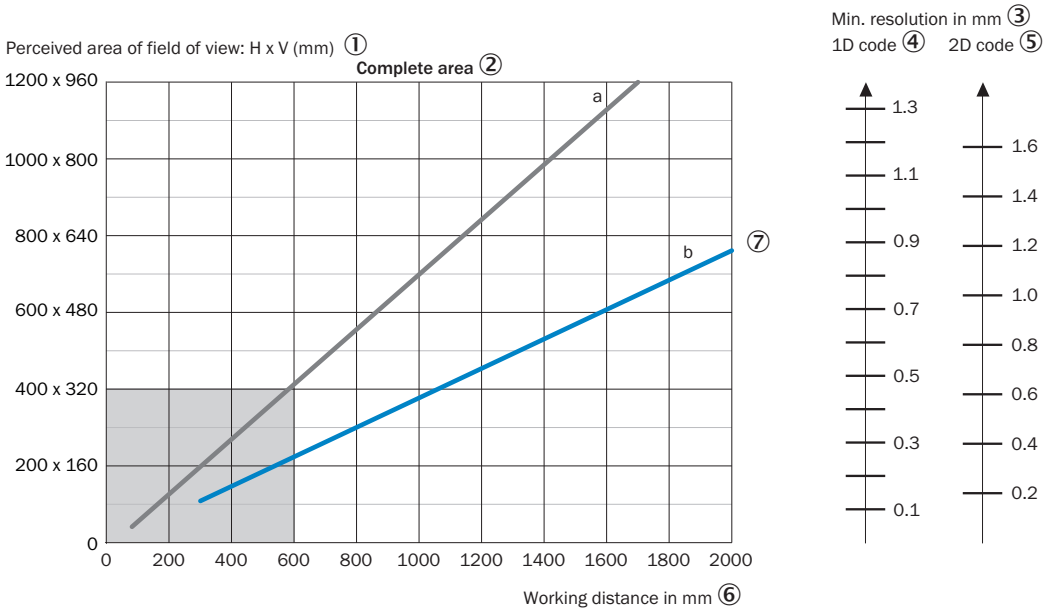
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
China RoHS	✓
cULus certificate	✓
Information according to Art. 3 of Data Act (Regulation EU 2023/2854)	✓

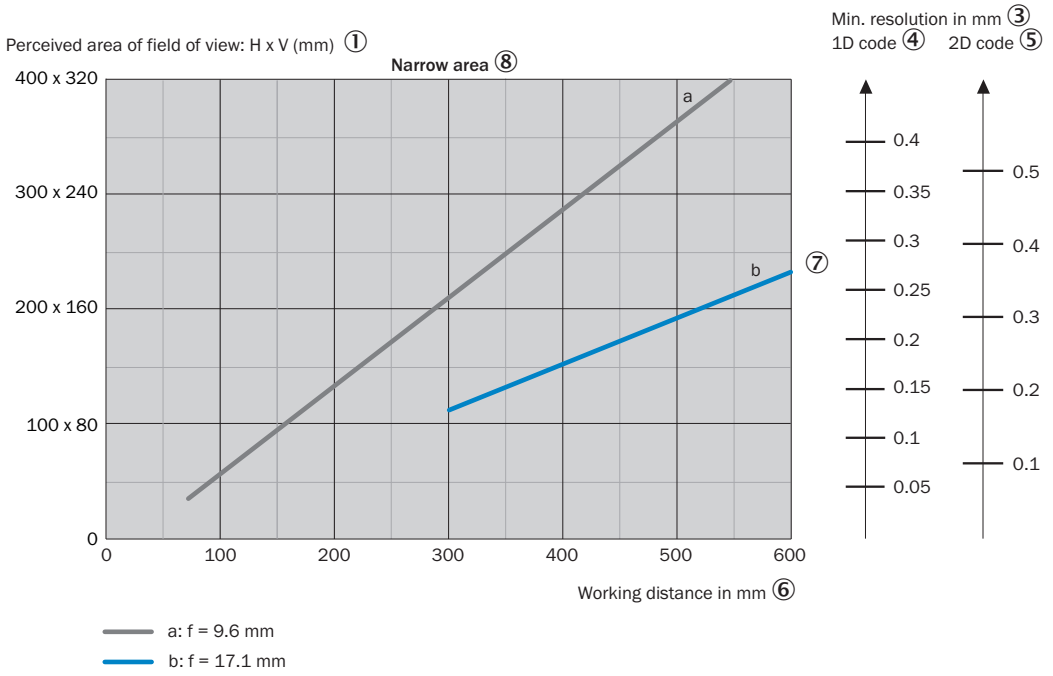
DIMENSIONAL DRAWING



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)
⑧ cable (0.9 m) permanently attached to device with male connector, D-Sub-HD, 15-pin (connection “Power/Serial Data/CAN/I/O”)
⑨ Cover (flap)
⑩ “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
⑥ Working distance in mm
⑦ Focal length of lens, here example for f = 17.1 mm
⑧ Close range

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1132935

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

SICK

Sensor Intelligence