



# V2D632R-MWMFB4

Lector63x

**IMAGE-BASED CODE READERS** 



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# SICK O



### Ordering information

Туре	Part no.
V2D632R-MWMFB4	1074081

Included in delivery: V2D632R-MXCXB0 (1), C-mount lens (1), Distance bracket (1), Optics protective hood (PMMA) (1), VI55I-WH2023M0 (1)

Other models and accessories → www.sick.com/Lector63x

### Detailed technical data

### **Features**

W. J. a.	O
Variant	Complete device
Optical focus	Adjustable focus (manually)
Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	1,600 px x 1,200 px
Light source	
Internal lighting	LED, Visible, White, 6,000 K, ± 500 K
Feedback spot	LED, Visible, green, 525 nm, ± 15 nm
Feedback spot	LED, Visible, Red, 630 nm, ± 20 nm, RG 1
Adjustment aid	Laser, Visible, Red, 630 nm 680 nm
Laser class	1, complies with 21 CFR 1040.10 except for the tolerance according to "Laser Notice No. 50" from June 24, 2007 (IEC 60825-1:2014, EN 60825-1:2014)
Scanning frequency	≤ 50 Hz, at 1.9 megapixels resolution
Code resolution	≥ 0.1 mm <sup>1)</sup>
Reading distance	50 mm 2,200 mm <sup>1)</sup>
Lens	C-mount (compact)
Optical format	2/3"
Focal length	25 mm
Aperture	f/8

 $<sup>^{1)}</sup>$  Depends on lens used, for details see field of view diagram.

### Mechanics/electronics

Connection type	1 x M12, 17-pin plug (serial, CAN, I/Os, power supply)
	1 x M12, 8-pin socket (Ethernet, 1 GBit/s)
	1 x M8, 4-pin socket (USB)

	1 x M12, 4-pin socket (external illumination control)
Supply voltage	12 V DC 24 V DC, ± 20 %
Power consumption	Typ. 10 W, ± 20 %
Output current	≤ 100 mA
Housing	Aluminum die cast
Front screen	Plastic
Enclosure rating	IP67 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Electrical safety	EN 60950-1 (2011-01)
Weight	590 g
Dimensions (L x W x H)	108 mm x 63.1 mm x 74.1 mm

### 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, USPS (Postnet, Planet, USPS4SCB), Australian Post, Dutch KIX Post, Royal Mail, Swedish Post
2D code types	Data Matrix ECC200, GS1 Data-Matrix, MaxiCode, QR code
Stacked code types	PDF417
Code qualification	On the basis of ISO/IEC 16022, ISO/IEC 15415, ISO/IEC 18004

### Interfaces

Ethernet	✓, TCP/IP
Function	Host, AUX, FTP (image transmission)
Data transmission rate	10/100/1,000 Mbit/s
PROFINET	✓
Function	PROFINET Single Port (integrated), PROFINET Dual Port (optional via external connection module CDF600-2)
Data transmission rate	10/100 MBit/s
EtherNet∕IP™	✓
Data transmission rate	10/100/1,000 Mbit/s
Serial	<b>√</b> , RS-232, RS-422
Function	Host, AUX
Data transmission rate	0.3 kBaud 115.2 kBaud, AUX: 57.6 kBaud (RS-232)
CAN	✓
Function	SICK CAN sensor network CSN (master/slave, multiplexer/server)
Data transmission rate	250 kbit/s 500 kbit/s
PROFIBUS DP	✓
Type of fieldbus integration	Optional over external fieldbus module CDF600-2
USB	✓
Remark	USB 2.0 (for parameterization only)
Function	AUX
Digital inputs	4 ("Sensor 1", "Sensor 2", 2 inputs via optional CMC600 parameter memory in CDB650/ CDM420)
Configurable inputs	Encoder input, external trigger

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Digital outputs	6 (CDB650: "Result 1", "Result 2", "Result 3", "Result 4", 2 external outputs via CMC600 or CDM420: "Result 1", "Result 2", 2 external outputs via CMC600 or cable with open end: "Result 1", "Result 2", "Result 4")
Configurable outputs	Good read, External illumination control, free configurable output condition, "device ready"
Reading pulse	Digital inputs, non-powered, serial interface, Ethernet, CAN, auto pulse, presentation mode
Optical indicators	11 LEDs (5 x status display, 5 x LED bar graph, 1 green/red feedback spot)
Acoustic indicators	Beeper (configurable)
Control elements	2 buttons (choose and start/stop functions)
Operator interfaces	Web server
Configuration software	SOPAS ET
Memory card	Micro SD memory card (flash card) max. 32 GB, optional
Data storage and retrieval	Image and data storage via microSD memory card and external FTP
Maximum encoder frequency	1 kHz
External illumination control	Via digital output (max. 24 V trigger) or external illumination connection

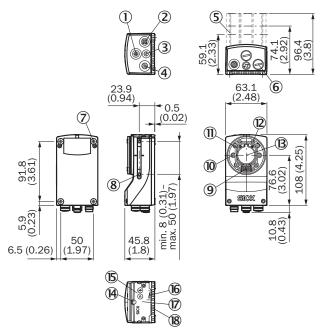
### Ambient data

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
Ambient operating temperature	0 °C +50 °C
Storage temperature	-20 °C +70 °C
Permissible relative humidity	90 %, Non-condensing

### Classifications

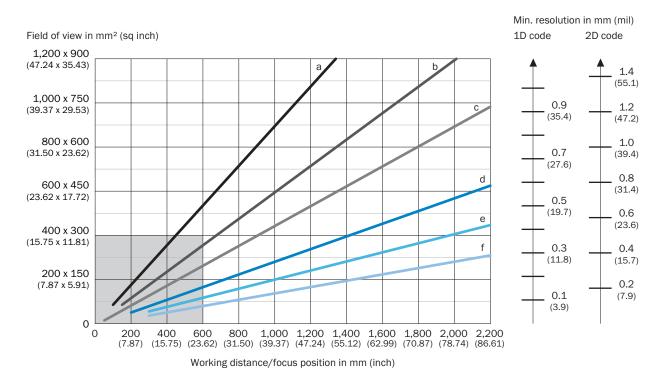
ECI@ss 5.0	27280103
ECI@ss 5.1.4	27280103
ECI@ss 6.0	27280103
ECI@ss 6.2	27280103
ECI@ss 7.0	27280103
ECI@ss 8.0	27280103
ECI@ss 8.1	27280103
ECI@ss 9.0	27280103
ECI@ss 10.0	27280103
ECI@ss 11.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002999
UNSPSC 16.0901	43211701

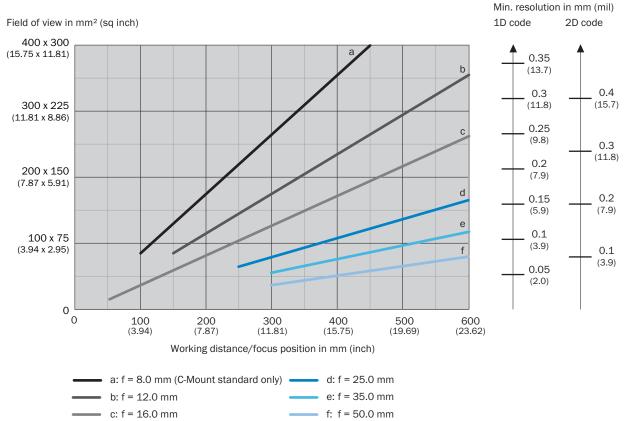
### Dimensional drawing (Dimensions in mm (inch))



- ① "External light" connection (external illumination unit, female connector, M12, 4-pin, A-coded)
- ② "Ethernet" connection (Gigabit Ethernet, female connector, M12, 8-pin, X-coded)
- ③ "USB" connection (female connector, type M8, 4-pin), for temporary use as a service interface only
- ④ "Power/Serial Data/CAN/I/O" connection (male connector, M12, 17-pin, A-coded)
- ⑤ Optics protective hood (length: 22.7 mm, 37.7 mm or 60 mm)
- (all very condition) 4 protective caps for sealing off the electrical connections as required for enclosure rating IP67 (delivery condition)
- 7 4 tapped blind holes, M5, 5.5 mm deep for mounting the device
- ® 2 sliding nuts, M5, 5.5 mm deep, as an alternative method of mounting the device
- (VI55I ring illumination unit)
- 1 2 laser alignment aids
- 1 S-mount or C-mount optics module
- @ 4 blind tapped holes, 2.5 mm for mounting the spacers for the integrable illumination (VI55I ring illumination unit)
- Optical axis and center of the image sensor
- Basic device: Manual focus screw for an S-mount lens, accessible via the round opening in the housing cover. To secure the focus setting, cover the round opening with a self-adhesive label. Complete device: The opening is already covered by a label.
- 15 2 function keys
- 16 5 bar graph LEDs
- ntinged cover on the top side of the device, access to the microSD memory card and the manual focus screw (S-mount)
- ® 5 status LEDs (2 levels)

### Field of view

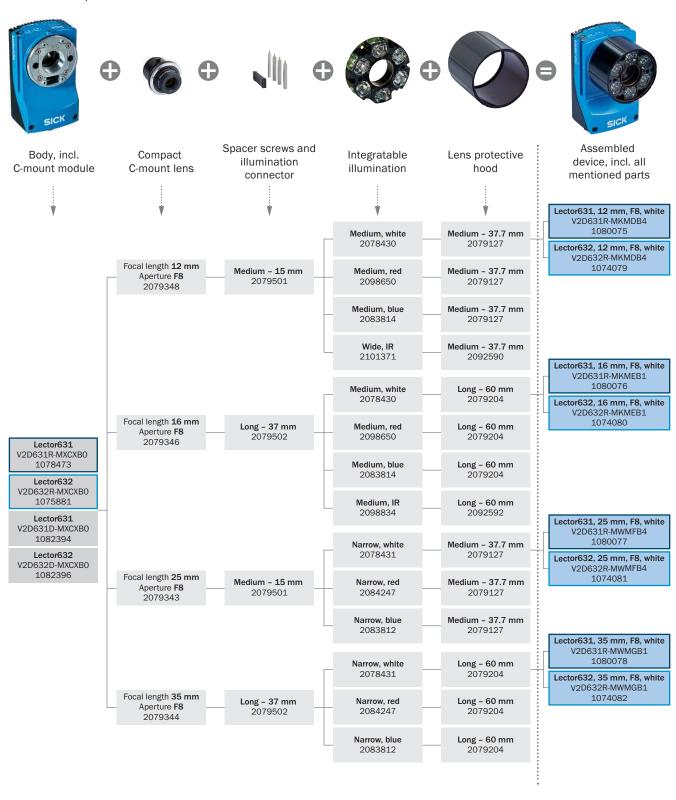


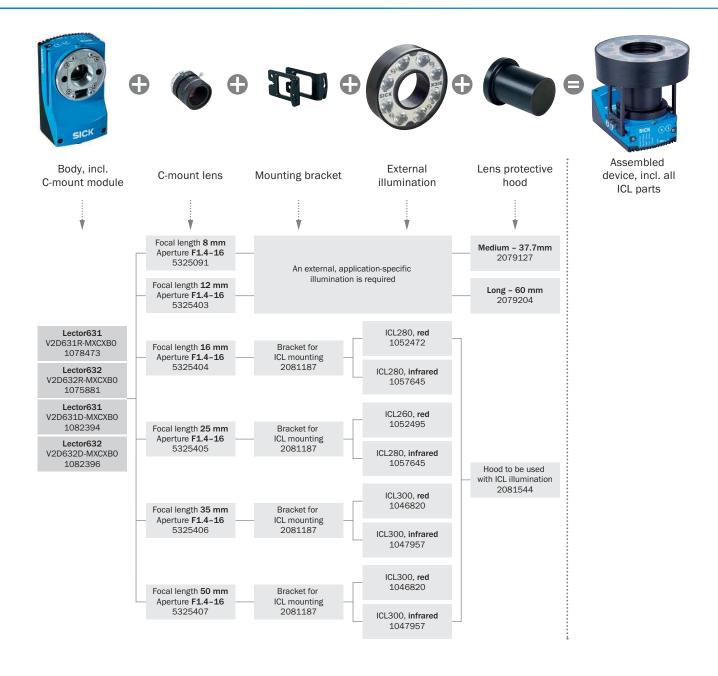


For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

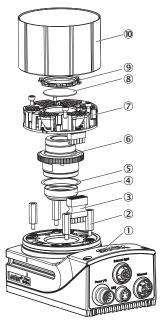
### Selection Guide

Lector63x Compact C-mount





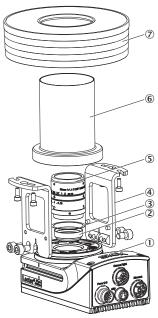
### Exploded view



- ① Camera housing
- ② Spacer for built-in illumination
- ③ Plug connector for illumination④ Optical filter (optional)
- ⑤ Spacer disk (included with delivery of filter)
- **©** Compact C-mount lens
- Built-in illumination
- ® C-mount filter (optional), cannot be used with 15 mm lenses (2080213)
- 9 Filter holder
- Protective cover for optics

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- ① Camera housing
- ② C-mount filter (optional)
- 3 Spacer disk (included with delivery of filter)
- ④ C-mount lens
- Mounting bracket for ICL ring lighting
- Protective cover for optics for ICL ring lighting
- ⑦ ICL ring lighting

### Recommended accessories

Other models and accessories → www.sick.com/Lector63x

Sales in a decease is a second of the interest			
	Brief description	Туре	Part no.
Mounting brackets and plates			
	Mounting bracket with screws, L-shaped for mounting with sliding nuts, includes angle indicator for adjusting the tilt angle	Mounting bracket	2078970
Plug connectors and cables			
6.6	Head A: female connector, M12, 17-pin, straight, A-coded Head B: male connector, M12, 17-pin, straight, A-coded Cable: Power, serial, CAN, digital I/Os, suitable for 2 A, shielded, 2 m	YM2A8D- 020XXXF2A8D	6053230
1	Head A: male connector, M12, 8-pin, straight, X-coded Head B: male connector, RJ45, 8-pin, straight Cable: Gigabit Ethernet, twisted pair, PUR, halogen-free, shielded, 2 m	YM2X18- 020EG2MRJA8	6049728
Modules			
all and a second	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/Lector63x

	Туре	Part no.
Warranty extensions		
<ul> <li>Product area: Identification solutions, machine vision, Distance sensors, Detection and ranging solutions</li> <li>Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms and conditions of purchase)</li> <li>Duration: Five-year warranty from delivery date.</li> </ul>	Extended warranty for a total of five years from delivery date	1680671
Product, system, and software training		
• Range of services: The training contents relate to the Lector® series, Training format and location can be worked out in collaboration with SICK	Lector® series training	1612232
Commissioning		
<ul> <li>Product area: Image-based code readers</li> <li>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 Lector6xx illumination, code configuration, trigger and digital inputs, interfaces and digital outputs as well as data processing</li> <li>Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses.</li> <li>Duration: Additional work will be invoiced separately</li> </ul>	Commissioning Lector6xx	1608206
Maintenance		
<ul> <li>Product area: Image-based code readers</li> <li>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</li> <li>Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses.</li> <li>Duration: Additional work will be invoiced separately</li> </ul>	Maintenance Lector6xx	1611421
Performance check		
<ul> <li>Product area: Image-based code readers</li> <li>Range of services: Inspection of defined functions, e.g., reading performance</li> <li>Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses.</li> <li>Duration: Additional work will be invoiced separately</li> </ul>	Performance check Lector6xx	1608207

### 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



