

V2D632R-MXSXB0 Flex

Lector63x

IMAGE-BASED CODE READERS





Ordering information

Туре	Part no.
V2D632R-MXSXB0 Flex	1067380

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



Detailed technical data

Features

Focus	Adjustable focus (manually)
Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	1,600 px x 1,200 px
Light source	To be ordered separately as accessory Aiming laser: visible red light (λ = 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 (2007-3))
Scanning frequency	≤ 50 Hz, at 1.9 megapixels resolution
Code resolution	≥ 0.1 mm ¹⁾
Reading distance	50 mm 2,200 mm ¹⁾

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

Performance

Readable code structures	1D, 2D, Stacked
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		√ , TCP/IP
	Function	Host, AUX, FTP (image transmission)
	Data transmission rate	10/100/1,000 Mbit/s
PROFINET		✓
	Function	PROFINET Dual Port (optional via external connection module CDF600-2)

EtherNet/IP™	√
Data transmission rate	10/100/1,000 Mbit/s
Serial	✓, 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 (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
Switching inputs	4 ("Sensor 1", "Sensor 2", 2 inputs via optional CMC600 parameter memory in CDB650/ CDM420)
Configurable inputs	Encoder input, external trigger
Switching 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	Switching 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)
Operating elements	2 buttons (choose and start/stop functions)
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, internal storage and external FTP
Maximum encoder frequency	1 kHz
External illumination control	Via digital output (max. 24 V trigger) or via external illumination connector

Mechanics/electronics

Electrical connection	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)
Operating voltage	24 V DC, ± 20 %
Power consumption	Typ. 10 W, ± 20 %
Output current	≤ 100 mA
Housing	Aluminum die cast
Enclosure rating	IP67 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Electrical safety	EN 60950-1 (2011-01)
Weight	430 g, without lens and connection cables
Dimensions (L x W x H)	108 mm x 63.1 mm x 45.8 mm ¹⁾
Lens	Exchangeable (S-mount), to be ordered separately as accessory

 $^{^{1)}}$ Only housing without lens and protective hood.

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IMAGE-BASED CODE READERS

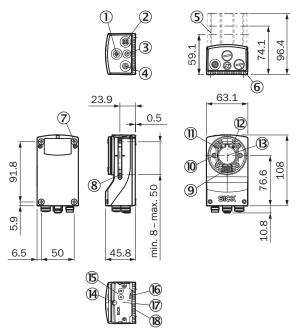
Ambient data

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

Classifications

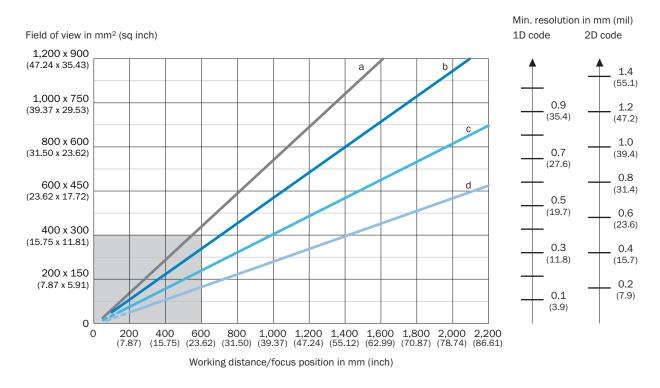
ECI@ss 5.0	27280103
ECI@ss 5.1.4	27280103
ECI@ss 6.0	27280103
ECI@ss 6.2	27280103
ECI@ss 7.0	27280103
ECI@ss 8.0	27280103
ECI@ss 8.1	27280103
ECI@ss 9.0	27280103
ETIM 5.0	EC002550
ETIM 6.0	EC002550
UNSPSC 16.0901	43211701

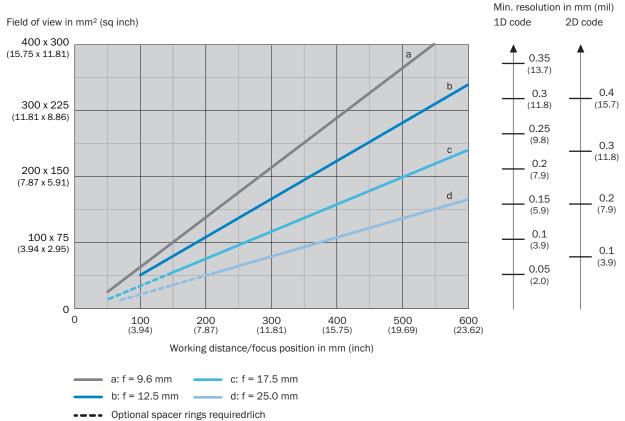
Dimensional drawing (Dimensions in mm (inch))



- ① External illumination connection
- ② Gigabit Ethernet port
- ③ USB port
- 4 Power, serial, CAN, and I/O connection
- ⑤ 22.7 mm, 37.7 mm, or 60 mm protective cover for optics
- $\ensuremath{\mathfrak{G}}$ Protective caps/plugs to seal any electrical connections that are not in use
- ® M5 sliding nut, 5.5 mm deep (4 x), pivoting, for an alternative method of mounting the sensor
- Integrated illumination connection
- ① Aiming laser (2 x)
- $\scriptsize \textcircled{1} \quad \textbf{S-mount or C-mount optics module}$
- 2.5 mm blind tapped holes (4 x) for mounting the spacers for the integrable illumination
- Optical axis and center of the image sensor
- Manual focus screw, underneath cover/label (S-mount Flex)
- (5) Function button (2 x)
- ® Bar graph display
- ® Removable cover for microSD memory card slot and manual focus screw (S-mount)
- ® LEDs for status display (2 levels), 5 x

Field of view

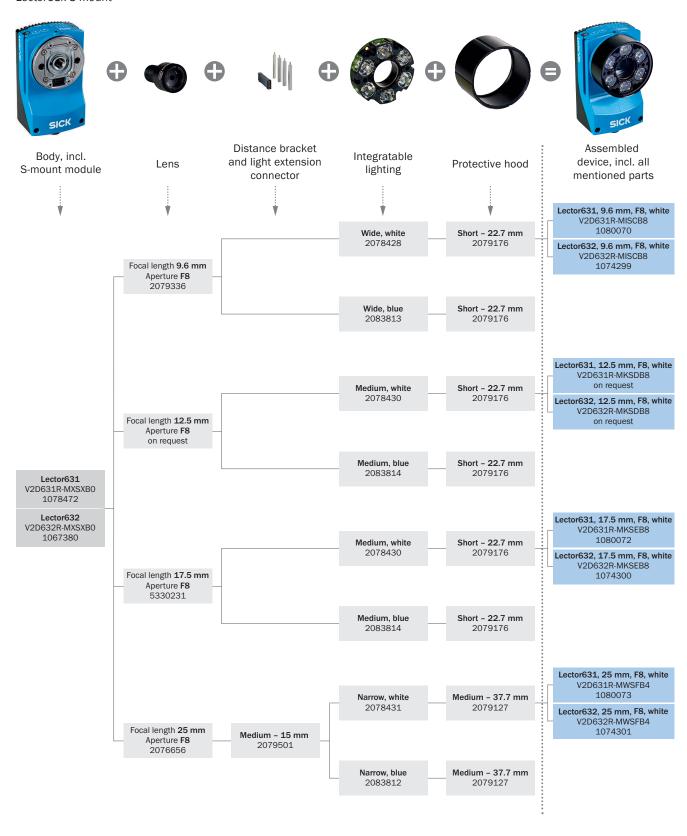




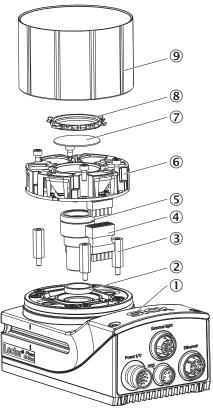
For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

Selection Guide

Lector63x S-mount



Exploded view



- ① Camera housing
- ② Spacer for built-in illumination
- ③ Spacer ring (optional)
- ④ Plug connector for illumination
- ⑤ S-mount lens
- 6 Built-in illumination
- ⑦ Optical filter (optional)
- 8 Filter holder
- Protective cover for optics

Recommended accessories

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

	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
Terminal and alignment brackets			
	Distance bracket and light extension connector (medium) for mounting integratable lighting, length 15 mm, used with compact C-mount lenses with focal length of 12 mm or 25 mm and S-mount lens with focal length 25mm	Distance bracket	2079501

	Brief description	Туре	Part no.
Modules			
	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
Plug connecto	ors and cables		
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, drag chain use, suitable for 2 A, suitable for re- frigeration, shielded, 2 m	Connection cable (male connector - female connector)	6053230
1	Head A: male connector, M12, 8-pin, straight, X-coded Head B: male connector, RJ45, 8-pin, straight Cable: Gigabit Ethernet, shielded, 2 m	Connection ca- ble (male connec- tor-male connector)	6049728
Lenses and a	ccessories		
O	Lens protective hood medium, enclosure rating IP 67, length 37.7 mm, PMMA, used with compact C-mount lenses with focal length of 12 mm or 25 mm and S-mount lens with focal length 25mm	Optics pro- tection cover	2079127
Illuminations			
O	Integratable lighting, lighting color white, narrow, suitable for S-mount and compact C-mount lenses with a focal length of 25 mm and 35 mm	VI55I-WH2023M0	2078431

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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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