

LBC632 Label Checker

QUALITY CONTROL SYSTEMS



QUALITY CONTROL SYSTEMS



Ordering information

Туре	part no.
LBC632	1091688

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

Illustration may differ



Detailed technical data

Features

Technology	2D snapshot
Light source	
	Illumination LEDs: (to be ordered separately as accessories) Laser alignment aid: visible red light (λ = 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)
Focus	Adjustable focus (manually)
Sensor	CMOS matrix sensor, grayscale values, 1.9 Mpixel, 1,600 px, 1,200 px
Spectral range	Approx. 400 nm 900 nm
Lens	C-mount

Mechanics/electronics

Dimensions, system (L x W x H)	$108\;\text{mm}\text{x}$ 63 mmx 46 mm (Housing only, without lens and optics protection hood)
Enclosure rating	IP67 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Protection class	III (EN 60950-1 (2014-08))
Power consumption	Typ. 10 W, \pm 20 %
Housing material	Aluminum die cast
Output current	≤ 100 mA
Connections	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M8, 4-pin female connector (USB, not used) 2 x M12, 8-pin female connector (Gigabit Ethernet, only one connection used) 1 x M12, 4-pin male connector (external illumination)
Supply voltage	12 V DC 24 V DC, ± 20 %
Window material	PMMA
Weight	430 g

Performance

Bar code types	2/5 Industrial Interleaved 2 of 5 Codabar Code 39 Code 93
	Code 128 EAN-8

	EAN13 Pharmacode
2D code types	Data Matrix ECC200 QR code Micro QR code PDF417 Aztec
OCR/OCV fonts	Universal, industrial, document, DotPrint, pharma, OCR-A, OCR-B, Arabic numbers
Optical format	1/1.8"
Maximum encoder frequency	1 kHz

Interfaces

Ethernet Function	✓, TCP/IP
	EtherNet/IP UDP / PROFINET FTP HTTP
Data transmission rate	10/100/1,000 Mbit/s
Operator interface	Web server
Optical indicators	5 x status display, 5 x LED bar graph, 1 green/red feedback spot
Data storage and retrieval	Image and data logging via microSD memory card and external FTP
Acoustic indicators	Beeper

Ambient data

Ambient temperature, operation	-20 °C +70 °C, permissible relative humidity: 0% 90% (non-condensing)
Ambient temperature, storage	-20 °C +70 °C ¹⁾
Shock load	EN 60068-2-27:2009-05
Vibration load	EN 60068-2-6:2008-02

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

General notes

• •	InspectorP V2D632P-2MXCXB0
	LabelChecker software

Certificates

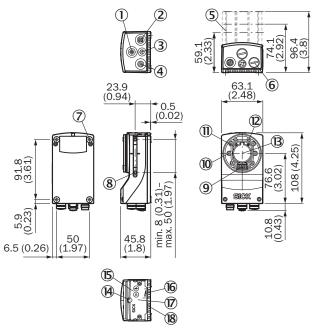
EU declaration of conformity	✓
UK declaration of conformity	✓
KC Mark certificate	✓

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	27289090
ECLASS 11.0	27289090
ECLASS 12.0	27289090
ETIM 5.0	EC001820
ETIM 6.0	EC001820
ETIM 7.0	EC001820
ETIM 8.0	EC001820
UNSPSC 16.0901	43211731

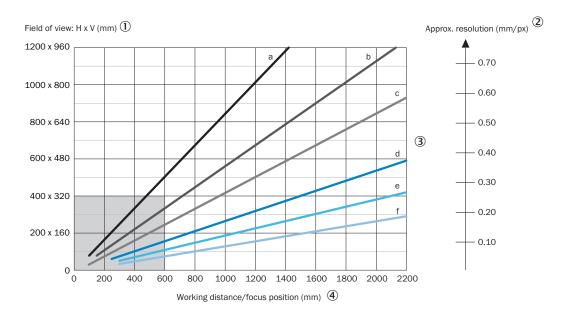
Dimensional drawing

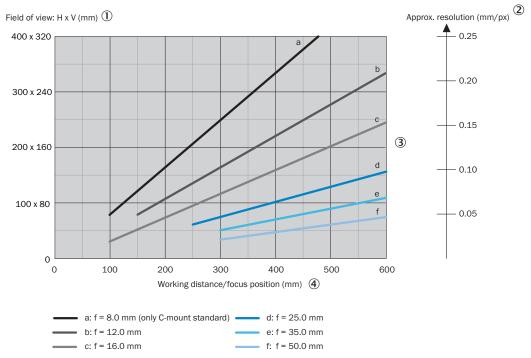


Dimensions in mm (inch)

- ① "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 protection hood (length: 22.7 mm, 37.7 mm or 60 mm)
- (a) 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
- Onnection for an integrable illumination unit (VI55I ring illumination unit)
- @ 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
- 6 5 bar graph LEDs
- Thinged 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)

Characteristic curve

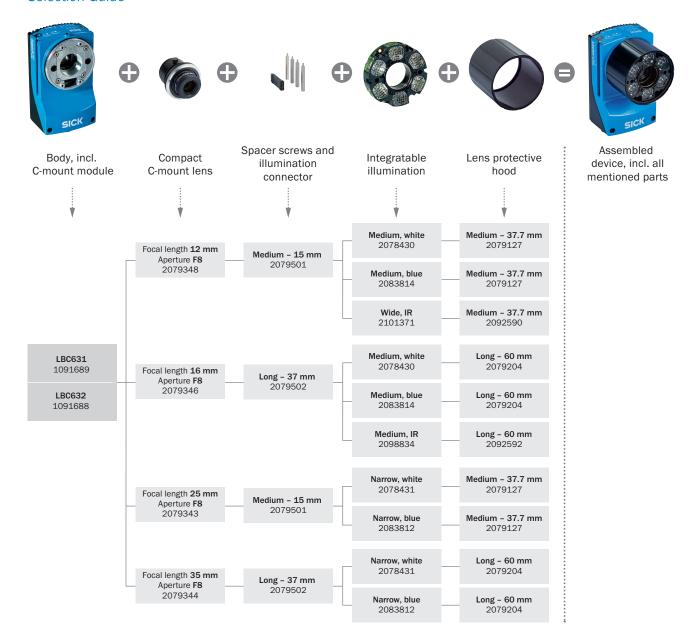




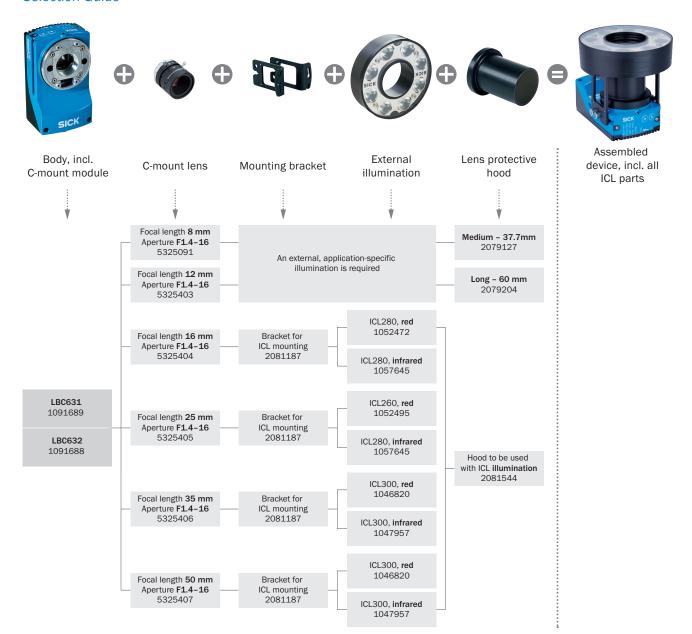
For S-mount and standard C-mount lenses, spacer rings are needed for working distances shorter than approximately 10 times the focal length. For compact C-mount lenses, spacer rings are not needed, but the built-in illumination cannot be used for distances shorter than 300 mm.

- ① Field of view: Horizontal x vertical in mm
- 2 approximate resolution in mm/px
- ③ Lens focal length
- Working distance/Focus position in mm

Selection Guide



Selection Guide



Recommended accessories

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

	Brief description	Туре	part no.	
reflectors and optics				
	Description: Compact C-mount 2/3", focal length 12 mm, aperture 8	C-mount lens	2079348	
O	Description: Optics protection hood, medium, enclosure rating IP 67, length: 37.7 mm, PMMA, for use with compact C-mount lens with focal length 12 mm or 25 mm and S-mount lens with focal length 25 mm	Optics protection hood (PMMA)	2079127	
	Description: Integratable lighting, lighting color white, medium, suitable for S-mount and compact C-mount lenses with a focal length of 12 mm, 16 mm and 17.5 mm	VI55I-WH1441M0	2078430	
	Description: 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	
Mounting syst	rems			
	Description: Mounting bracket set consisting of mounting bracket, cooling plate, includes angle display for setting the tilt angle Suitable for: Lector63x, Inspector63x, Lector83x – up to 40 °C ambient operating temperature, Insepctor83x – up to 40 °C ambient operating temperature, Lector83x – up to 40 °C ambient operating temperature, Insepctor83x – up to 40 °C ambient operating temperature, Lector63x, Inspector63x	Mounting bracket set with inclination angle -40°-40°	2076735	
	 Description: Sliding nut, M5, short Usable for: Lector62x, EventCam 	Sliding nut	5324896	
connectors ar	nd cables			
	 Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Flying leads Signal type: Power, serial, CAN, digital I/Os Cable: 3 m, 17-wire, stripped, PE-X Description: Power, suitable for 2 A, shielded, Serial, Changed color coding of the flying leads, CAN, Digital I/Os Connection systems: Flying leads Note: Max. permissible current strength at ambient temperature 50 °C: Contact 1 (blue) and contact 2 (brown): 3 A while the remaining contacts are operated with max. 100 mA; max. permissible current strength at ambient temperature 40 °C: 2 A for two and 1.5 A for 15 contacts. Application: Drag chain operation 	YF2ASD-030XXXXLECX	2070425	

SICK AT A GLANCE

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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.

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