



LBC652
Label Checker

QUALITY CONTROL SYSTEMS





Ordering information

Туре	part no.
LBC652	1091686

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, 2.1 Mpixel, 2,048 px, 1,088 px
Spectral range	Approx. 400 nm 900 nm
Lens	C-mount

Mechanics/electronics

Dimensions, system (L x W x H)	142 mm x 90 m x 46 mm (Housing only, without lens and optics protection hood)
Enclosure rating	IP65 (EN 60529 (1991-10), EN 60529/A2 (2002-02))
Protection class	III (EN 60950-1 (2014-08))
Power consumption	Typ. 10 W, ± 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)
Supply voltage	24 V DC, ± 20 %
Window material	Glass
Weight	635 g

Performance

Bar code types	2/5 Industrial Interleaved 2 of 5 Codabar Code 39 Code 93 Code 128 EAN-8 EAN13 Pharmacode
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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"
Maximum encoder frequency	1 kHz

Interfaces

Ethernet	✓, TCP/IP
Function	EtherNet/IP UDP / PROFINET FTP HTTP
Data transmission rate	10/100/1,000 Mbit/s
Operator interface	Web server
Optical indicators	10 x status display, 10 x LED bar graph, 1 green 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

Items supplied	InspectorP V2D652P
	LabelChecker software

Certificates

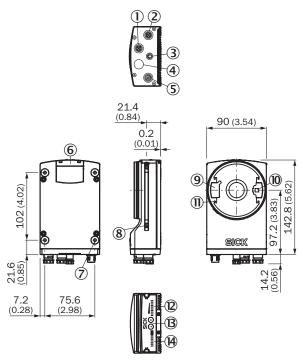
EU declaration of conformity	✓
UK declaration of conformity	✓

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

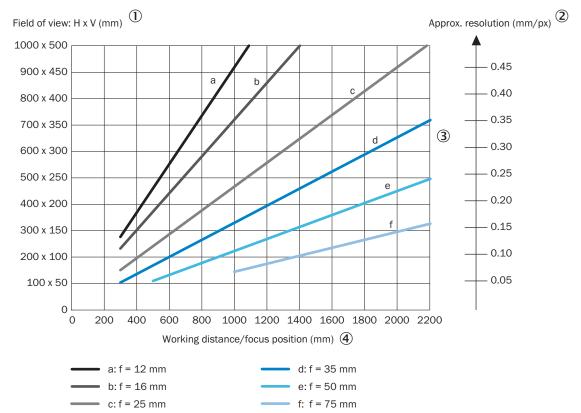
Dimensional drawing



Dimensions in mm (inch)

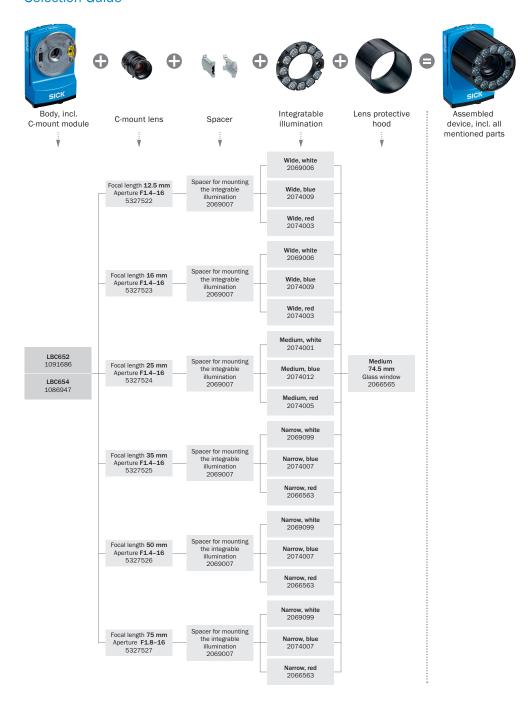
- ① "Ethernet" P1 connection
- 2 P3 connection "Ethernet"
- ③ X2 "USB" connection or "trigger external lighting", depending on type
- ④ P2 connection "CAN OUT", depending on type
- ⑤ X1 "Power/Serial Data/CAN/I/O" connection or "CAN IN", depending on type
- 6 cover for the microSD memory card
- 7 M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- (as alternative)
- $\ensuremath{\mathfrak{G}}$ plug connector for connecting the integrated lighting
- 1 laser alignment aid exit
- ① 2.5 mm blind tapped holes (4 x) for mounting the spacers for the integrable illumination
- 12 Bar graph display
- (4) LED for status display (2 levels), 10 x

Characteristic curve



- 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



Recommended accessories

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

	Brief description	Туре	part no.
reflectors and	optics		
00	Description: Optics kit 03 incl. lens with focal distance 25 mm, white illumination, spacer and optics protective hood	Optics kit 03	1064793
Mounting syst	tems		
	Description: Mounting bracket kit comprising mounting bracket, cooling plate and screws, including angle indicator for adjusting the tilt angle	Mounting bracket kit	2069171
	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

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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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