



LBC621-17NIR

Label Checker

QUALITY CONTROL SYSTEMS

SICK
Sensor Intelligence.



Ordering information

Type	part no.
LBC621-17NIR	1115470

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

Illustration may differ



Detailed technical data

Features

Technology	2D snapshot
Light source	
Internal lighting	LED, infrared, 850 nm, ± 25 nm
Feedback spot	LED, visible green light, 525 nm, ± 15 nm
Adjustment aid	Laser, visible red light, 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 (electric)
Sensor	CMOS matrix sensor, grayscale values, 1.3 Mpixel, 1,280 px, 1,024 px
Spectral range	Approx. 400 nm ... 900 nm
Focal length	17.1 mm

Mechanics/electronics

Dimensions, system (L x W x H)	71 mm x 43 mm x 35.6 mm
Enclosure rating	IP65
Protection class	III
Power consumption	Typ. 4 W
Housing material	Aluminum die cast
Output current	≤ 100 mA
Connections	1 x M12, 17-pin male connector (serial, I/Os, voltage supply) 1 x M12, 4-pin female connector (Ethernet)
Supply voltage	12 V DC ... 24 V DC, ± 20 %
Window material	Glass
Weight	170 g

Performance

Bar code types	2/5 Industrial Interleaved 2 of 5 Codabar Code 39 Code 93 Code 128
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	EAN-8 EAN13 Pharmacode GS1-128 / EAN 128 Code 32 UPC-A UPC-E GS1, various types MSI
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	300 Hz

Interfaces

Ethernet	✓ , TCP/IP
Function	EtherNet/IP UDP PROFINET
Data transmission rate	10/100 MBit/s
Protocol	FTP HTTP
Operator interface	Web server
Optical indicators	5 x status display, 5 x LED bar graph, 1 green/red feedback spot
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 V2D621P-2MDFGB5 LabelChecker software
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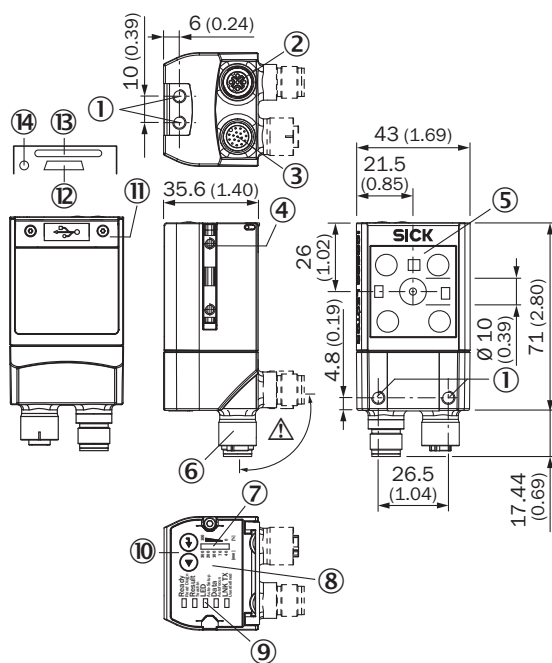
Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓

Classifications

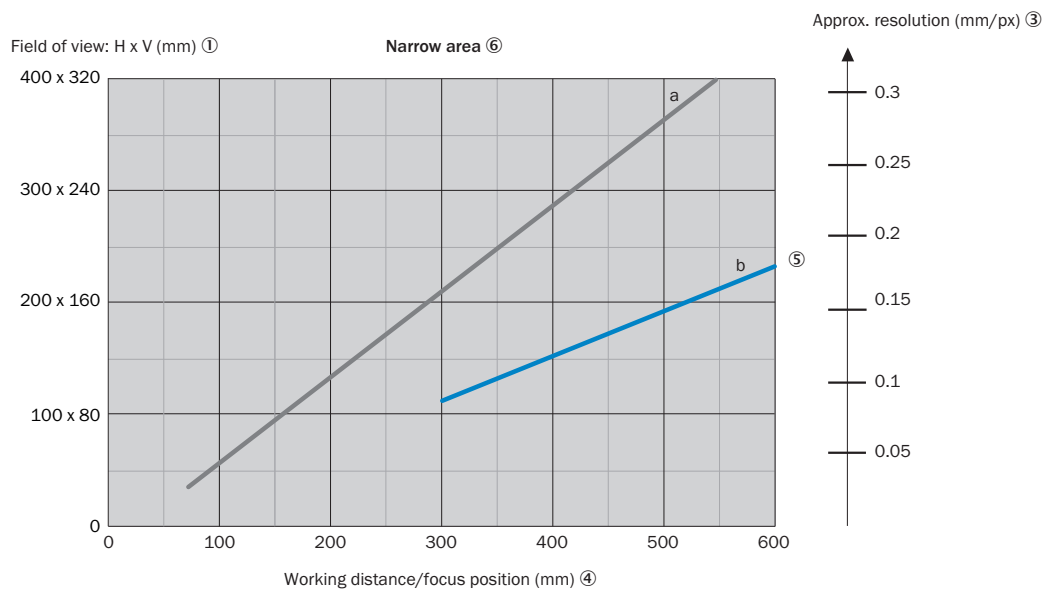
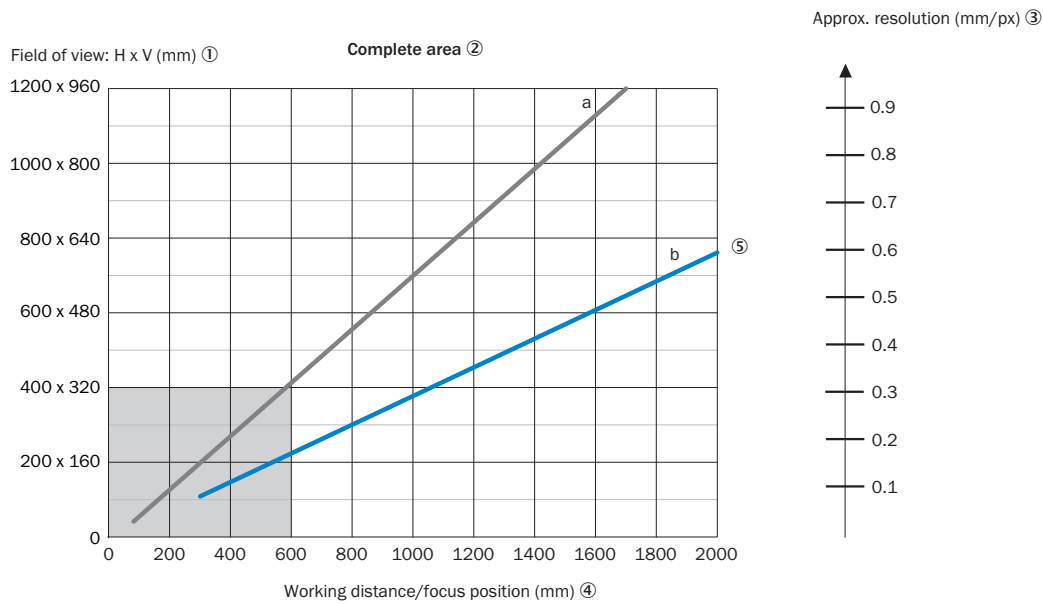
ECLASS 5.0	27310205
ECLASS 5.1.4	27310205
ECLASS 6.0	27310205
ECLASS 6.2	27310205
ECLASS 7.0	27310205

Dimensional drawing



- ① M5 blind tapped holes, 5 mm deep (4 x), for mounting the sensor
- ② “Ethernet” connection, 4-pin M12 female connector, D-coded
- ③ “Power/Serial Data/CAN/I/O” connection, 17-pin M12 male connector, A-coded
- ④ sliding nut M5, 5.5 mm deep (2 x), for mounting (as alternative)
- ⑤ reading window with internal illumination LEDs (4 x)
- ⑥ swivel connector unit
- ⑦ Bar graph
- ⑧ beeper (under housing cover)
- ⑨ LEDs for status display (2 levels), 5 x
- ⑩ Function button (2 x)
- ⑪ Cover (flap)
- ⑫ “USB” connection (female connector, 5-pin, type Micro-B) interface for temporary use (service)
- ⑬ Slot for microSD memory card
- ⑭ LED for microSD memory card

Characteristic curve



— a: $f = 9.6$ mm
— b: $f = 17.1$ mm

Take into account the following aspects when designing the application: the field of view geometry of the device, and the position of the field of view in the space in front of the device. Possible angles at which the objects can arise in relation to the device. For the planned working distance: resultant field of view length and width as well as the approximate resolution.

- ① Field of view: Horizontal x vertical in mm
- ② complete area
- ③ approximate resolution in mm/px
- ④ Working distance/Focus position in mm
- ⑤ Focal length of lens, here example for $f = 17.1$ mm
- ⑥ Narrow range

Recommended accessories

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

	Brief description	Type	part no.
Mounting systems			
	Description: Bracket with adapter board	Mounting bracket	2042902
connectors and cables			
	Connection type head A: Female connector, M12, 17-pin, straight, A-coded Connection type head B: Male connector, M12, 17-pin, straight, A-coded Signal type: Power, serial, CAN, digital I/Os Cable: 3 m, 17-wire Description: Power, suitable for 2 A, shielded, Serial, CAN, Digital I/Os Application: Drag chain operation	YM2A8D-030XXXF2A8D	6051194
	Connection type head A: Male connector, M12, 4-pin, straight, D-coded Connection type head B: Male connector, RJ45, 4-pin, straight Signal type: Ethernet, PROFINET Cable: 2 m, 4-wire, PUR, halogen-free Description: Ethernet, shielded, PROFINET Application: Drag chain operation, Zones with oils and lubricants	YM2D24-020P-N1MRJA4	2106182

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:

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