



2 rue René Laennec 51500 Taissy France Fax: 03 26 85 19 08, Tel: 03 26 82 49 29 E-mail:hvssystem@hvssystem.com Site web : www.hvssystem.com

the sensor people



You decide what

your bar code reader can do.

The BCL 300*i* bar code series sets new standards when it comes to individual equipment options.

What makes our new BCL 300i series special is its **modularity**. For the first time, you can select from a large number of equipment options to individually configure a device optimally for your application. You thereby obtain a bar code reader perfectly tailored to your needs with regard to function, connection, mounting, and operation and one that stands for reliability and system availability.

Top performance and practical innovation in all areas

The BCL 300i convinces not only with its proven performance characteristics such as the high-performance code reconstruction technology, the integrated fieldbus connectivity and the—in this performance class—unrivalled optical data at long range and wide opening angle.

With the unique connector hood, the device can also be quickly connected to your fieldbus environment without complicated plug mounting.

In addition, the compact scanner can be used as an Ethernet switch in the network and can be configured either via the browser-based webConfig tool conveniently and directly via Ethernet or directly in the PROFIBUS/PROFINET environment.

Diverse application possibilities.













Impressive performance characteristics:

The benefits of the BCL 300i at a glance.

With the new BCL 300i, you can select between freely combinable equipment variants and a variety of impressive performance parameters integrated by default. We call this flexible type of product configuration modular.

Ethernet

Ethernet switch

The device can function as an Ethernet switch to create a line structure network.

High-quality optics

The optics used enable a large depth of field and opening angle for the reliable detection of even the widest transport systems.



Full CRT (Code Fragment Technology)

With the most powerful code fragment technology on the market, it also reliably detects heavily damaged or soiled codes.



Compact design

Compact housing design for problem-free placement directly at the conveyor line.



Integrated switch

For Ethernet-based interfaces for setting up a line structure

Display elements

- Graphical display
- LED display

Options

- Heating
- Mounting systems



Optics / read fields

- High Density (N)
- Medium Density (M)
- Low Density (F)
- Ultra Low Density (L)

Connection technology

- Modular connector hood
- Modular terminal hood
- Modular connection box
- Connection cable

Scanner

- Oscillating mirror
- Deflecting mirror
- Front mirror
- Line scanner
- Raster scanner

Interfaces

- PROFIBUS
- PROFINET
- Ethernet TCP/IP
- multiNet
- RS 232/422/485
- EtherNet IP









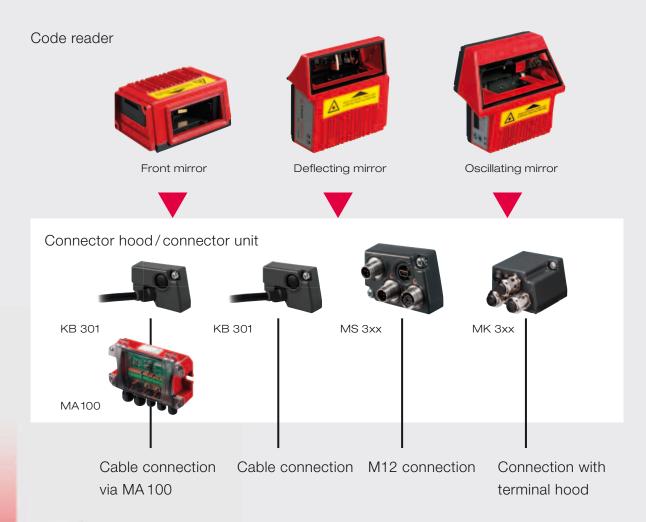






Various connector hoods make possible flexible connection options.

The three available models of the BCL 300i – with front scanner, with deflection mirror or with oscillating mirror – can be combined with any of three different connector hoods. Thanks to this feature and the optional MA 100 connector unit, you can integrate the device flexibly into a variety of environments.

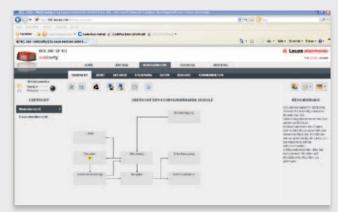


Configuration and parameterization made easy.

The quick way to individually configure your bar code reader.

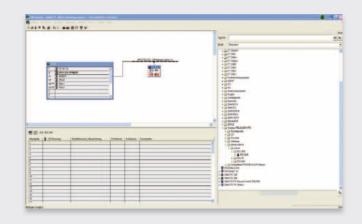


With the integrated webConfig tool, an operating system independent, web-technology based, multilingual user interface is available for configuring and parameterizing. The individual parameters are graphically displayed in a easy-to-understand manner.



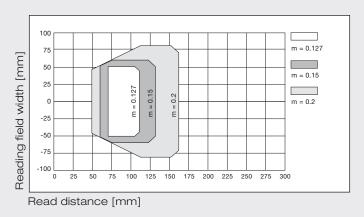
The BCL 300*i* in the world of PROFIBUS/PROFINET.

The integrated Profibus or Profinet makes it possible to configure the BCL 300i directly in the HW Config via the module structure contained in the GSD/GSDML file. The set parameters are stored in the control and automatically transferred to the new device in the event of a device exchange.

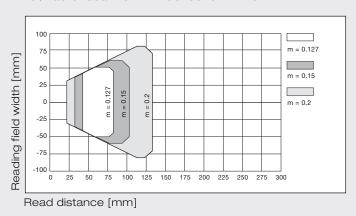


Reading field curves High Density (N)

Line / raster scanner without deflection mirror

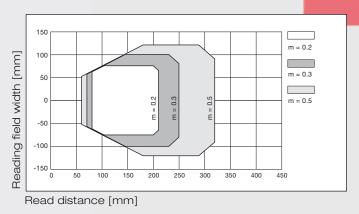


Line / raster scanner with deflection mirror

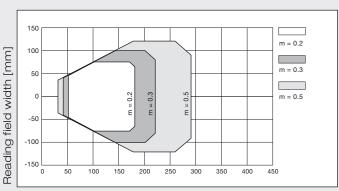


Reading field curves Medium Density (M)

Line / raster scanner without deflection mirror

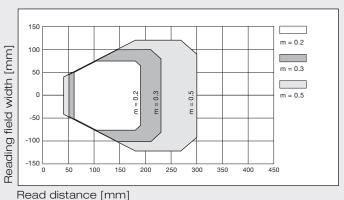


Line / raster scanner with deflection mirror

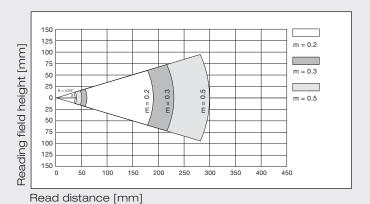


Read distance [mm]

Line scanner with oscillating mirror

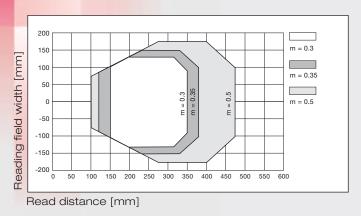


Line scanner with oscillating mirror (lateral reading curve)

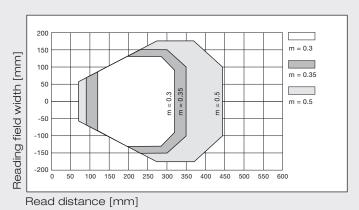


Reading field curves Low Density (F)

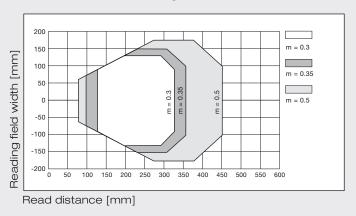
Line / raster scanner without deflection mirror



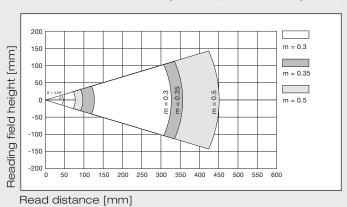
Line / raster scanner with deflection mirror



Line scanner with oscillating mirror

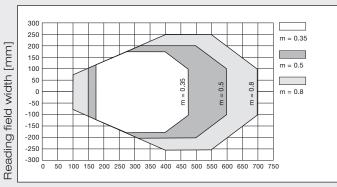


Line scanner with oscillating mirror (lateral reading curve)



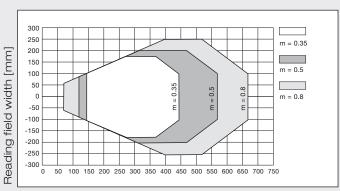
Reading field curves Ultra Low Density (L)

Line scanner without deflection mirror



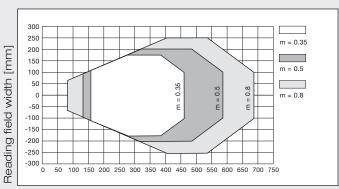
Read distance [mm]

Line scanner with deflection mirror



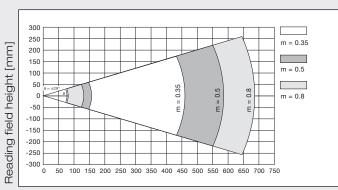
Read distance [mm]

Line scanner with oscillating mirror



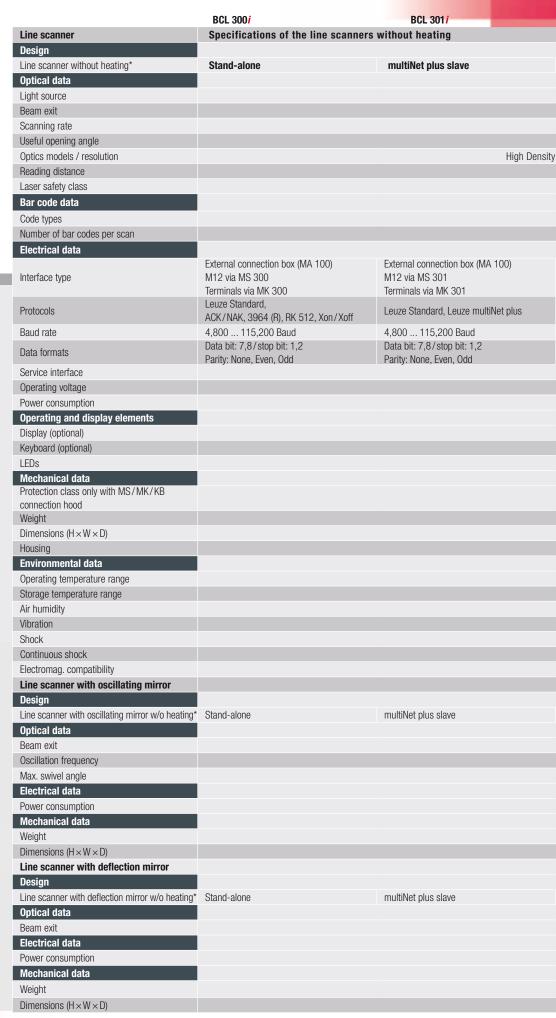
Read distance [mm]

Line scanner with oscillating mirror (lateral reading curve)



Read distance [mm]

Technical data





^{*} Data for scanners with optics heating, see technical description, download under www.leuze.com

PROFIBUS DP **Ethernet PROFINET Ethernet IP** Laser diode $\lambda = 655 \, \text{nm}$ 1,000 scans/s Max. 60° (N): 0.127 - 0.2 mm; Medium Density (M): 0.2 - 0.5 mm; Low Density (F): 0.3 - 0.8 mm; Ultra Low Density (L): 0.35 - 0.8 mm See reading field curves 2 acc. to EN 60825-1, CDRH (U.S. 21 CFR 1040.10) 2/5 Interleaved, Code 39, Code 128, EAN/UPC, Codabar, Code 93, RSS 14 M12 via MS 304 M12 via MS 308 M12 via MS 348 2x M12 D-coded (F) Terminals via MK 304 Terminals via MK 308 Terminals via MK 348 PROFINET/RT, PROFIBUS DP Ethernet, TCP/IP/UDP Ethernet IP TCP/IP, UDP 9.6 Kbaud - 12 MBaud 10/100 MBaud 10/100 MBaud 10/100 MBaud Slave DPV1 Mini-B type USB 2.0 socket 18 ... 30 V DC (SC III, class 2) Approx. 4 W Monochromatic graphical display, 128 × 32 pixels, background lighting (optional) 2 LEDs for power (PWR) and bus state (BUS), two-colored (red/green) IP 65 270 g $44 \times 95 \times 68 \,\text{mm}$ Diecast aluminum $0^{\circ}C - +40^{\circ}C$ -20°C - +70°C Air humidity max. 90 % rel. humidity, non-condensing IEC 60068-2-6, test FC IEC 60068-2-27, test Ea IEC 60068-2-29, test Eb EN 55022, EN 61326-1; IEC 61000-6-2 (contains IEC 61000-4-2, -3, -4, -5 and -6) Technical data same as for line scanner without heating with the following differences: PROFIBUS DP Ethernet PROFINET/RT, TCP/IP Ethernet IP Lateral zero position at an angle of 90° 0-10 Hz (adjustable, max. frequency is dependent on set swivel angle) +/- 20° (adjustable) Approx. 10W 580 g $58\!\times\!125\!\times\!110\,\text{mm}$ Technical data same as for line scanner without heating with the following differences: PROFIBUS DP Ethernet PROFINET/RT, TCP/IP Ethernet IP Optical data - beam exit with lateral zero position at an angle of 105° Approx. 4 W

 $350\,g$ $44\times103\times96\,\text{mm}$



Data Transmission/ Control Components

MA Modular Interfacing Units Data Transmission Safe Control Components

Industrial Image Processing

Light Section Sensors Smart Cameras

Leuze electronic GmbH + Co. KG In der Braike 1 D-73277 Owen/Germany Phone +49(0)7021/573-0 Fax +49(0)7021/573-199 info@leuze.de www.leuze.com