



the sensor people





Part no.: 50116180 BCL 300i OF 100 D Stationary bar code reader











Figure can vary

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- · Part number code
- Notes
- Accessories



Technical data

Basic data				
Series	BCL 300i			
Functions				
Functions	Alignment mode AutoConfig AutoControl AutoReflAct Code fragment technology LED indicator Reference code comparison			
Characteristic parameters				
MTTF	110 years			
Read data				
Code types, readable	2/5 Interleaved Codabar Code 128 Code 39 Code 93 EAN 8/13 GS1 Databar Expanded GS1 Databar Omnidirectional UPC			
Conneiles note tomical				
Scanning rate, typical	1,000 scans/s			
Scanning rate, typical Bar codes per reading gate, max. number	1,000 scans/s 64 Piece(s)			
Scanning rate, typical Bar codes per reading gate, max. number	1,000 scans/s 64 Piece(s)			
Bar codes per reading gate, max. number				
Bar codes per reading gate, max. number Optical data	64 Piece(s)			
Bar codes per reading gate, max. number Optical data Reading distance	64 Piece(s) 80 455 mm			
Bar codes per reading gate, max. number Optical data Reading distance Light source	64 Piece(s) 80 455 mm Laser , Red			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength	64 Piece(s) 80 455 mm Laser , Red 655 nm			
Defical data Reading distance Light source Laser light wavelength Laser class	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90°			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency Max. swivel angle	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz			
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Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency Max. swivel angle Electrical data Protective circuit Performance data Supply voltage UB	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz 20 °			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency Max. swivel angle Electrical data Protective circuit Performance data Supply voltage UB Power consumption, max.	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz 20 ° Polarity reversal protection			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency Max. swivel angle Electrical data Protective circuit Performance data Supply voltage UB Power consumption, max. Inputs/outputs selectable	64 Piece(s) 80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz 20 ° Polarity reversal protection 18 30 V , DC 9 W			
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Modulus size Reading method Beam deflection Light beam exit Oscillating mirror frequency Max. swivel angle Electrical data Protective circuit Performance data Supply voltage UB Power consumption, max.	80 455 mm Laser , Red 655 nm 2 , IEC/EN 60825-1:2007 Continuous 0.3 0.5 mm Oscillating-mirror scanner Via rotating polygon wheel + stepping motor with mirror Zero position at side at angle less than 90° 10 Hz 20 ° Polarity reversal protection			



Function	Туре	RS 232 , RS 422
Transmission speed		
Data format	Function	Process
Start bit	Transmission speed	4,800 115,200 Bd
Data bit 7,8	Data format	Adjustable
Stop bit	Start bit	1
Parity	Data bit	7,8
Transmission protocol	Stop bit	1, 2 stop bits
Data encoding	Parity	Adjustable
RS 422	Transmission protocol	<stx><data><cr><lf></lf></cr></data></stx>
Process	Data encoding	ASCII
Transmission speed	RS 422	
Data format	Function	Process
Start bit	Transmission speed	4,800 115,200 Bd
Data bit 7, 8 data bits Stop bit 1, 2 stop bits Transmission protocol Adjustable Data encoding ASCII Service interface Type USB USB Function Connection Sorvice Function 1 Function BUS OUT Connection to device Data interface Data interface Data interface Type of connection Plug connector No. of pins 32-pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal, Diecast aluminum Lens cover material Glass Net weight S80 g Housing color Black Red Type of fastening Dovetali grooves Fastening on back	Data format	Adjustable
Stop bit 1, 2 stop bits Transmission protocol Adjustable Data encoding ASCII Service interface Type USB USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface Type of connection Pilug connector No. of pins 32-pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	Start bit	1
Transmission protocol Adjustable Data encoding ASCII Service interface Type USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection to device Data interface PWR / SW IN/OUT Service interface Type of connection Plug connector No. of pins 32 -pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Dovetail grooves Fastening on back	Data bit	7, 8 data bits
Data encoding Service interface Type USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection Function BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface PWR / SW IN/OUT Service interface Type of connection Plug connector No. of pins 32 -pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	Stop bit	1, 2 stop bits
Service interface	Transmission protocol	Adjustable
Type USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection 1 BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface PWR / SW IN/OUT Service interface Type of connection Plug connector No. of pins 32 -pin Type Male Mechanical data Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	Data encoding	ASCII
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Number of connections Piece(s)		
Number of connections Piece(s)	Connection	
Function BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface Type of connection Plug connector No. of pins 32 - pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight Gub G Black Red Type of fastening Dovetail grooves Fastening on back		1 Piece(s)
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PWR / SW IN/OUT Service interface Type of connection Plug connector No. of pins 32 -pin Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		Connection to device
Type of connection No. of pins Type Male Mechanical data Design Cubic Dimension (W x H x L) Housing material Lens cover material Metal , Diecast aluminum Lens cover material Glass Net weight Figure of fastening Dovetail grooves Fastening on back		
No. of pins Type Male Mechanical data Design Cubic Dimension (W x H x L) Housing material Lens cover material Metal , Diecast aluminum Glass Net weight S80 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		
Type Male Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	Type of connection	Plug connector
Mechanical data Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	No. of pins	32 -pin
Design Cubic Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back	Туре	Male
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Dimension (W x H x L) 125 mm x 58 mm x 110 mm Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		Cubio
Housing material Metal , Diecast aluminum Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		
Lens cover material Glass Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		
Net weight 580 g Housing color Black Red Type of fastening Dovetail grooves Fastening on back		
Housing color Black Red Type of fastening Dovetail grooves Fastening on back		
Red Type of fastening Dovetail grooves Fastening on back		
Fastening on back	Trousing COIOI	
Fastering on back Via optional mounting device	Type of fastening	Dovetail grooves
		Fastening on back Via optional mounting device

Operation and display



Type of display	LED Monochromatic graphic display, 128 x 32 pixels
Number of LEDs	2 Piece(s)
Type of configuration	Via web browser

Environmental data	
Ambient temperature, operation	0 40 °C
Ambient temperature, storage	-20 70 °C
Relative humidity (non-condensing)	0 90 %

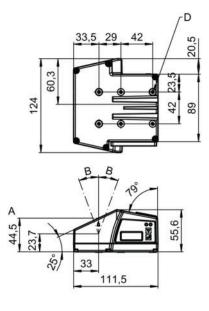
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 55022 EN 61000-4-2, -3, -4, -6
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC 60068-2-29, test Eb
Test procedure for vibration in accordance with standard	IEC 60068-2-6, test Fc

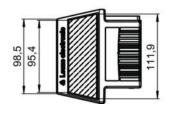
Classification	
Customs tariff number	84719000
eCl@ss 8.0	27280102
eCl@ss 9.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550

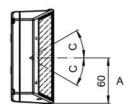
Dimensioned drawings

All dimensions in millimeters









- A Optical axis
- B Swivel angle of the laser beam: ± 20 $^{\circ}$
- C Deflection angle of the laser beam: \pm 30 $^{\circ}$
- D M4 thread (5 deep)

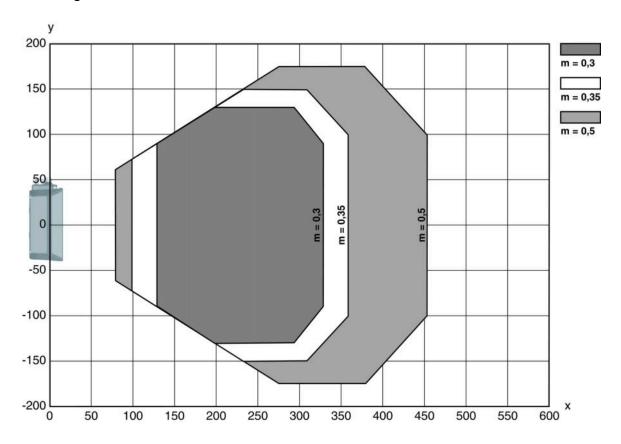
Electrical connection

Connection 1	
Function	BUS OUT Connection to device Data interface PWR / SW IN/OUT Service interface
Type of connection	Plug connector
No. of pins	32 -pin
Туре	Male



Diagrams

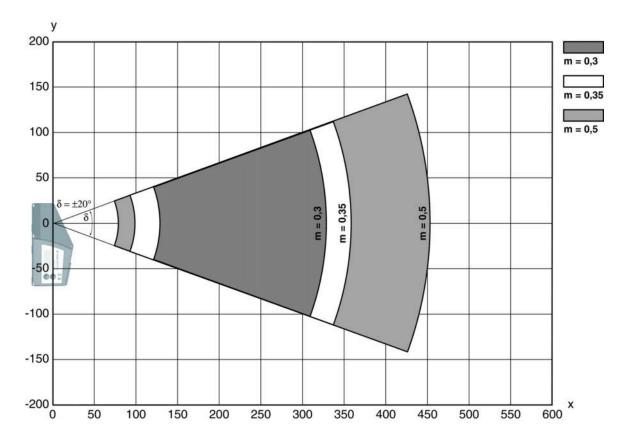
Reading field curve



- Reading field distance [mm] Reading field width [mm] х у



Lateral reading field curve



- Reading field distance [mm] Reading field height [mm]
- х у

Operation and display

LEDs

LEC)	Display	Meaning	
1	PWR	Green, flashing	Device ok, initialization phase	
		Green, continuous light	Device OK	
		Green, briefly off - on	Reading successful	
		green, briefly off - briefly red - on	Reading not successful	
	Orange, continuous light Se		Service mode	
		Red, flashing	Device OK, warning set	
	Red, continuous light E		Error, device error	
2	BUS Green, flashing Green, continuous light Red, flashing		Initialization	
			Bus operation ok	
			Communication error	
		Red, continuous light	Bus error	

Part number code

Part designation: BCL XXXX YYZ AAA BB CCCC



BCL	Operating principle: BCL: bar code reader			
xxxx	Series/interface (integrated fieldbus technology): 300i: RS 232 / RS 422 (stand-alone) 301i: RS 485 (multiNet slave) 304i: PROFIBUS DP 308i: EtherNet TCP/IP, UDP 348i: PROFINET RT 358i: EtherNet/IP			
YY	Scanning principle: S: line scanner (single line) R1: line scanner (raster) O: oscillating-mirror scanner (oscillating mirror)			
Z	Optics: N: High Density (close) M: Medium Density (medium distance) F: Low Density (remote) L: Long Range (very large distances) J: ink-jet (depending on the application)			
AAA	Beam exit: 100: lateral 102: front			
ВВ	Special equipment: D: with display H: with heating DH: optionally with display and heating P: plastic exit window			
CCCC	Functions: F007: optimized process data structure			

Note

A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes

Observe intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.

WARNING! LASER RADIATION - CLASS 2 LASER PRODUCT

Do not stare into beam!

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of **laser class 2** as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time
 period, there is a risk of injury to the retina.
- Do not point the laser beam of the device at persons!
- Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- · When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- Observe the applicable statutory and local laser protection regulations.
- The device must not be tampered with and must not be changed in any way.
 There are no user-serviceable parts inside the device.
 Repairs must only be performed by Leuze electronic GmbH + Co. KG.

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



NOTE

Affix laser information and warning signs!

Laser information and warning signs are affixed to the device. In addition, self-adhesive laser information and warning signs (stick-on labels) are supplied in several languages.

- Affix the laser information sheet to the device in the language appropriate for the place of use. When using the device in the US, use the stick-on label with the "Complies with 21 CFR 1040.10" note.
- Affix the laser information and warning signs near the device if no signs are attached to the device (e.g. because the device is too small) or if the attached laser information and warning signs are concealed due to the installation position.
- Affix the laser information and warning signs so that they are legible without exposing the reader to the laser radiation of the device or other optical radiation.

Accessories

Connection technology - Connection cables

Part no.	Designation	Article	Description
50132079	KD U-M12-5A- V1-050	Connection cable	Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
5	50114571 *	KB 301-3000	Interconnection cable	Suitable for interface: RS 232, RS 422, RS 485 Connection 1: Socket connector Connection 2: JST ZHR, 10 -pin, 6 -pin Shielded: Yes Cable length: 3,000 mm Sheathing material: PVC
	50117011	KB USB A - USB miniB	Service line	Suitable for interface: USB Connection 1: USB Connection 2: USB Shielded: Yes Cable length: 1,500 mm Sheathing material: PVC

^{*} Necessary accessories, please order separately

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50121433	BT 300 W	Mounting device	Contains: 4x M4 x 10 screw, 4x position washers, 4x lock washers Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Metal

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Mounting technology - Rod mounts

Part no.	Designation	Article	Description
50121435	BT 56 - 1	Mounting device	Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N·m

Mounting technology - Other

Part no.	Designation	Article	Description
50124941	BTU 0300M-W	Mounting device	Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, Groove mounting, Suited for M4 screws Material: Metal

Reflective tapes for standard applications

Part no.	Designation	Article	Description
50106119	REF 4-A-100x100	·	Design: Rectangular Reflective surface: 100 mm x 100 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive

Services

	Part no.	Designation	Article	Description
D (()	S981020	CS30-E-212	Hourly rate for "Configuration"	Details: Compilation of the application data, selection and suggestion of suitable sensor system, drawing prepared as assembly sketch. Conditions: Completed questionnaire or project specifications with a description of the application have been provided. Restrictions: Travel and accommodation charged separately and according to expenditure.
	S981014	CS30-S-110	Start-up support	Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment.
	S981019	CS30-T-110	Product training	Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure.

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Part no.	Designation	Article	Description
 S981021		Hourly rate for "Bar code qualification"	Details: REA evaluation with creation of a test report, evaluation of the code quality. Conditions: Original bar codes to be provided by the client.

Note

A list with all available accessories can be found on the Leuze electronic website in the Download tab of the article detailed page.