

Technical data sheet Stationary bar code reader

Part no.: 50116216

BCL 300i SM 100 D



Contents

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- Dimensioned drawings
- Electrical connection
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- Operation and display
- Part number code
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- Accessories















Technical data



Series	BCL 300i
Functions	
Functions	Alignment mode
	AutoConfig
	AutoControl
	AutoReflAct
	Code fragment technology
	LED indicator
	Reference code comparison
	Treference code companion
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 Limited
	GS1 Databar Omnidirectional
	UPC
Scanning rate, typical	1,000 scans/s
Scallilli rate, typical	
Bar codes per reading gate, max. number	64 Piece(s)
Bar codes per reading gate, max. number Optical data	
Bar codes per reading gate, max. number Optical data Reading distance Light source	64 Piece(s)
Bar codes per reading gate, max. number Optical data Reading distance	64 Piece(s) 30 290 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source	64 Piece(s) 30 290 mm Laser, Red
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength	64 Piece(s) 30 290 mm Laser, Red 655 nm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field	30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening)	30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size	30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 °
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening)	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit	30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit Performance data	30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit Performance data Supply voltage U _B	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror Polarity reversal protection 18 30 V, DC
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Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit Performance data Supply voltage U _B Power consumption, max. Inputs/outputs selectable Output current, max.	64 Piece(s) 30 290 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.2 0.5 mm Line scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror Polarity reversal protection 18 30 V, DC 4.5 W 60 mA
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RS 232	
Function	Process
Transmission speed	4,800 115,200 Bd
Data format	Adjustable
Start bit	1
Data bit	7,8
Stop bit	1.2
Parity	Adjustable
Transmission protocol	<stx><data><cr><lf></lf></cr></data></stx>
Data encoding	ASCII
DO 400	
RS 422 Function	Process
Transmission speed	4,800 115,200 Bd
Data format	Adjustable
Start bit	1
Data bit	7, 8 data bits
Stop bit	1, 2 stop bits
Transmission protocol	Adjustable
Data encoding	ASCII
Data encoding	Addii
Service interface	
Type	USB 2.0
Туре	00B 2.0
USB	
Function	Configuration via software
Connection	
Number of connections	1 Piece(s)
Connection 1	
Connection 1 Function	BUS OUT
	BUS OUT Connection to device
	Connection to device
	Connection to device Data interface
	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a
Function	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the
Function Type of connection	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device.
Type of connection No. of pins	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin
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Type of connection No. of pins Type Mechanical data	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male
Type of connection No. of pins Type Mechanical data Design	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic
Function Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L)	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal
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Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back
Function Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back
Type of connection No. of pins Type Mechanical data Design Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back
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Type of connection No. of pins	Connection to device Data interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels

Technical data



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
Approvals	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	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

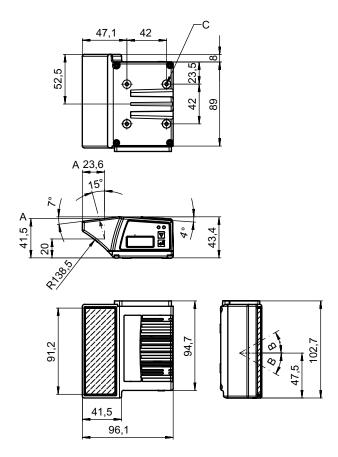
Classification

Customs tariff number	84719000
ECLASS 5.1.4	27280102
ECLASS 8.0	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ECLASS 13.0	27280102
ECLASS 14.0	27280102
ECLASS 15.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
ETIM 9.0	EC002550
ETIM 10.0	EC002550

Dimensioned drawings

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All dimensions in millimeters



- Optical axis
- Deflection angle of the laser beam: ± 30°
- M4 thread (5 mm deep)

Electrical connection

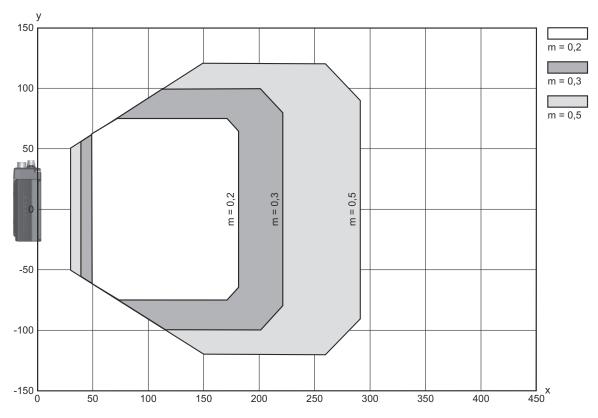
Connection 1

Function	BUS OUT
	Connection to device
	Data interface
	PWR / SW IN / OUT
	Service interface
Type of connection	Plug connector
Type of connection	It is essential to use a connection unit when commissioning the device.
No. of pins	32 -pin
Туре	Male

Diagrams



Reading field curve



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

Operation and display

LED	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	Service mode	
	Red, flashing	Device OK, warning set	
	Red, continuous light	Error, device error	
2 BUS	Green, flashing	Initialization	
	Green, continuous light	Bus operation ok	
	Red, flashing	Communication error	
	Red, continuous light	Bus error	

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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 338i: EtherCAT 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 F099: OPC-UA function

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.
- Only use the product in accordance with its intended use.

ATTENTION! LASER RADIATION - CLASS 1 LASER PRODUCT



The device satisfies the requirements of IEC/EN 60825-1:2014 safety regulations for a product of laser class 1 and complies with 21 CFR 1040.10 except for conformance with IEC 60825-1 Ed. 3., as described in Laser Notice No. 56, dated May 8, 2019.

- 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.

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Accessories



Connection technology - Connection unit

Part no.	Designation	Article	Description
50114369	MA 100	Modular connection unit	Supply voltage: 18 30 V Interface: RS 232, RS 485 Connections: 1 Piece(s) Degree of protection: IP 54

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 Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
7	50114571 *	KB 301-3000	Interconnection cable	Suitable for interface: RS 232, RS 422, RS 485 Connection 1: Socket connector Connection 2: JST ZHR connector, 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

Connection technology - Connection boxes

Part no.	Designation	Article	Description
50116463 *	MK 300	Connection unit	Suitable for: BCL 300i, BPS 300i Interface: RS 232 Number of connections: 3 Piece(s) Connection: Terminal
50116468 *	MS 300	Connection unit	Suitable for: BCL 300i, BPS 300i Interface: RS 232 Number of connections: 3 Piece(s) Connection: Connector, M12

Accessories



	Part no.	Designation	Article	Description
000	50150597 *	MS 342	Connector hood	Suitable for: BCL 348i Supply voltage: DC Interface: IO-Link Number of connections: 1 Piece(s) Connection: Connector, M12

^{*} Necessary accessories, please order separately

Mounting technology - Mounting brackets

Part no.	Designation	Article	Description
50121433	BT 300 W	Mounting device	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

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 Shock absorber: No

Reflective tapes for standard applications

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

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Accessories



Services

	Part no.	Designation	Article	Description
上	S981020	CS30-E-212	Hourly rate	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.
	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.
	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.
 	S981021	CS30-V-212	Hourly rate	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 website in the Download tab of the article detailed page.