

Technical data sheet Stationary bar code reader

Part no.: 50141843

BCL 338i S L 100 F007



Contents

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- Dimensioned drawings
- Electrical connection
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- Part number code
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- Accessories













Technical data



Basic data	
Series	BCL 300i
Special version	
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 Limited
	GS1 Databar Omnidirectional
	UPC
Scanning rate, typical	1,000 scans/s
Bar codes per reading gate, max. number	64 Piece(s)
Optical data	
Reading distance	70 670 mm
Light source	Laser, Red
Wavelength	655 nm
Laser class	1, IEC/EN 60825-1:2014
Transmitted-signal shape	Continuous
Usable opening angle (reading field opening)	60 °
Modulus size	0.35 0.8 mm
Reading method	Line scanner with deflecting mirror
Beam deflection	By means of rotating polygon mirror wheel + deflecting mirror
Light beam exit	Lateral with deflecting mirror
Electrical data	
Protective circuit	Polarity reversal protection
Performance data	40 20 V DO
Supply voltage U _B	18 30 V, DC
Power consumption, max.	4.5 W
Inputs/outputs selectable	
Inputs/outputs selectable Output current, max.	60 mA
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Output current, max.	
Output current, max. Number of inputs/outputs selectable	2 Piece(s)

Function Process Transmission protocol EtherCAT, CoE and EoE Service interface Type USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection BUS IN BUS OUT Connection to device Data interface PWR / SW IN / OUT Service interface PWR	EtherCAT	
Transmission protocol Service interface Type USB 2.0 USB Function Configuration via software Service Connection Number of connections 1 Piece(s) Connection 1 Function BUS IN BUS OUT Connection to device Data interface PWR / SW IN / OUT Service interface PWR / SW IN / OUT Service interface Plug connector, It is essential to use a connection unit when commissioning the device. No. of pins Type Male Mechanical data Design Cubic Dimension (W x H x L) Housing material Metal Metal housing Diecast aluminum Lens cover material Net weight 370 g Housing color Red Silver Type of fastening Dovetail grooves Fastening on back Via optional mounting device Operation and display Type of display LED Number of LEDs Type of configuration Via web browser Environmental data Ambient temperature, operation O 40 °C Ambient temperature, operation		Process
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Net weight Housing color Red Silver Type of fastening Dovetail grooves Fastening on back Via optional mounting device Operation and display Type of display LED Number of LEDs 2 Piece(s) Type of configuration Via web browser Environmental data Ambient temperature, operation Ambient temperature, storage -20 70 °C	Metal housing	Diecast aluminum
Housing color Red Silver Type of fastening Dovetail grooves Fastening on back Via optional mounting device Operation and display Type of display LED Number of LEDs 2 Piece(s) Type of configuration Via web browser Environmental data Ambient temperature, operation Ambient temperature, storage -20 70 °C		
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Type of configuration Via web browser Environmental data Ambient temperature, operation Ambient temperature, storage -20 70 °C	Type of display	LED
Environmental data Ambient temperature, operation 0 40 °C Ambient temperature, storage -20 70 °C	Number of LEDs	2 Piece(s)
Ambient temperature, operation 0 40 °C Ambient temperature, storage -20 70 °C	Type of configuration	Via web browser
Ambient temperature, storage -20 70 °C	Environmental data	
	Ambient temperature, operation	0 40 °C
Relative humidity (non-condensing) 0 90 %	-	-20 70 °C
	Relative humidity (non-condensing)	0 90 %

EtherCAT

Type

Technical data



Certifications

Degree of protection	IP 65
Protection class	III
Certifications	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

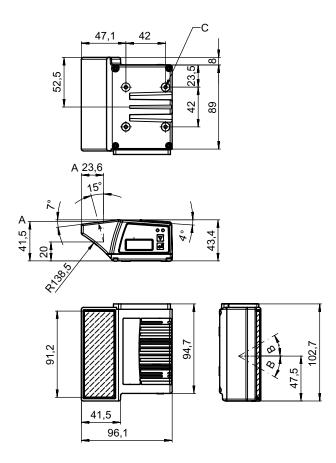
Classification

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
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
ETIM 9.0	EC002550

Dimensioned drawings

Leuze

All dimensions in millimeters



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

Electrical connection

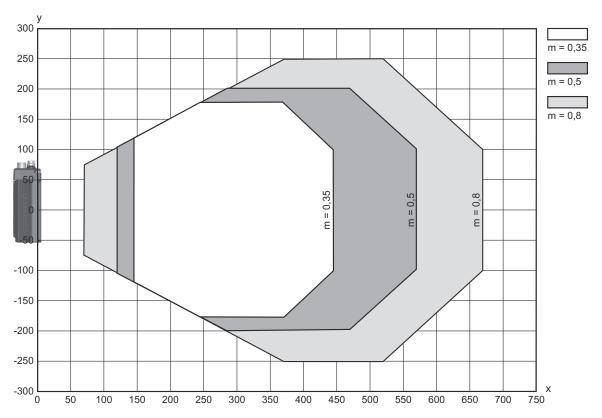
Connection 1

Function	BUS IN
	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.

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- 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

We reserve the right to make technical changes

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 Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC
W	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
	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
	50137078	KSS ET-M12-4A- M12-4A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR
	50135081	KSS ET-M12-4A- RJ45-A-P7-050	Interconnection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Connection technology - Connection boxes

	Part no.	Designation	Article	Description
6	50134929 *	ME 338 103	Connection unit	Suitable for: BCL 338i, BPS 338i Interface: EtherCAT Number of connections: 4 Piece(s) Connection: Cable with connector, M12, 900 mm
6	50134927 *	ME 338 104	Connection unit	Suitable for: BCL 338i Interface: EtherCAT Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 900 mm
6	50134928 *	ME 338 214	Connection unit	Suitable for: BCL 338i Interface: EtherCAT Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 600 mm

Accessories



	Part no.	Designation	Article	Description
	50134931 *	MK 338	Connection unit	Suitable for: BCL 338i, BPS 338i Interface: EtherCAT Number of connections: 4 Piece(s) Connection: Terminal
000	50134930 *	MS 338	Connection unit	Suitable for: BCL 338i, BPS 338i Interface: EtherCAT Number of connections: 4 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

Accessories



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

Services

	Part no.	Designation	Article	Description
<u>В</u>	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.