

Technical data sheet Stationary bar code reader Part no.: 50141829 BCL 338i SL 102 D F007



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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 1,000 scans/s Scanning rate, typical Bar codes per reading gate, max. 64 Piece(s) number **Optical data** 100 ... 700 mm **Reading distance** Light source Laser, Red Laser light wavelength 655 nm Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field 60 ° opening) Modulus size 0.35 ... 0.8 mm Reading method Line scanner Beam deflection Via rotating polygon wheel Light beam exit Front **Electrical data** Protective circuit Polarity reversal protection Performance data Supply voltage U_B 18 ... 30 V, DC Power consumption, max. 4.5 W Inputs/outputs selectable 60 mA Output current, max. Number of inputs/outputs selectable 2 Piece(s) Input current, max. 8 mA Interface

Type USB Function Configuration via software Service Connection I Piece(s) Number of connections 1 Piece(s) Connection 1 BUS IN BUS OUT Connection to device Data interface Function BUS IN BUS OUT Connection to device Part of connection Plug connector No. of pins 32 -pin Type Male Wechanical data Cubic Dimension (W x H x L) 95 mm x 44 mm x 68 mm Housing material Metal, Diecast aluminum ens cover material Glass Vet weight 290 g Housing color Black Red Pype of fastening Dovetail grooves Fastening on back Via optional mounting device Piece(s) Cuber of display LED Monochromatic graphic display, 128 x 3 pixels pixels Number of LEDs 2 Piece(s) Pype of configuration Via web browser Operational controls Button(s) Environmental data -35 40 °C Ambient temperature, operation -35 70 °C <th>Function</th> <th>Process</th>	Function	Process
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Housing color Black Red Dovetail grooves Type of fastening Dovetail grooves Fastening on back Via optional mounting device Operation and display LED Monochromatic graphic display, 128 x 3 pixels Number of LEDs 2 Piece(s) Type of configuration Via web browser Operational controls Button(s) Environmental data -35 40 °C Ambient temperature, operation -35 70 °C	Lens cover material	Glass
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Ambient temperature, operation-35 40 °CAmbient temperature, storage-20 70 °C		Button(s)
Ambient temperature, storage -20 70 °C	Environmental data	
	Ambient temperature, operation	-35 40 °C
Relative humidity (non-condensing) 0 90 %	Ambient temperature, storage	-20 70 °C
	Relative humidity (non-condensing)	0 90 %

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Туре

EtherCAT

Technical data

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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

A Optical axis

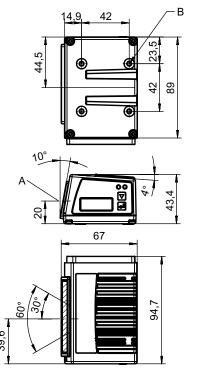
M4 thread (5 deep)

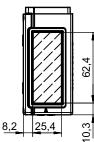
В

Customs tariff number	84719000
eCl@ss 8.0	27280102
eCl@ss 9.0	27280102
eCl@ss 10.0	27280102
eCl@ss 11.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550

Dimensioned drawings

All dimensions in millimeters





Electrical connection

Connection 1

A

Function	BUS IN
	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

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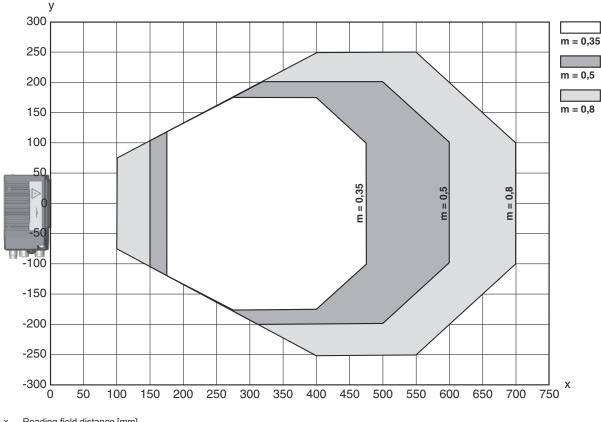
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Diagrams

Reading field curve



Reading field distance [mm] х

Reading field width [mm] y

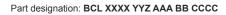
Operation and display Die

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





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
BB	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.

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Notes

	Observe intended use!
\wedge	∜ 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.
•	${\Leftrightarrow}$ Only use the product in accordance with its intended use.

Notes

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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!
- the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- b 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.
- by 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.



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
W I	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
W	50135074	KS ET-M12-4A-P7- 050	Connection cable	Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR

Accessories

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: 1,000 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

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
S	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

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Accessories

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Reflective tapes for standard applications

 Part no.	Designation	Article	Description
50106119	REF 4-A-100x100	Reflective tape	Design: Rectangular Reflective surface: 100mm x 100mm 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.
	S981021	CS30-V-212	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.



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