

Technical data sheet Stationary bar code reader Part no.: 50141863 BCL 338i O F 100 D F007



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We reserve the right to make technical changes eng • 2023-01-31

The Sensor People In der Braike 1, 73277 Owen

Technical data

Leuze

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.	64 Piece(s)
number	0111000(0)
Optical data	
Reading distance	80 455 mm
Light source	Laser, Red
Wavelength	655 nm
Laser class	1, IEC/EN 60825-1:2014
Transmitted-signal shape	Continuous
Modulus size	0.3 0.5 mm
Reading method	Oscillating-mirror scanner
Beam deflection	Via rotating polygon wheel + stepping motor with mirror
Light beam exit	Zero position at side at angle less than 90°
Oscillating mirror frequency	10 Hz
	15 °
Max. swivel angle	
-	
Electrical data	Polarity reversal protection
Electrical data	Polarity reversal protection
Electrical data Protective circuit	Polarity reversal protection 18 30 V, DC
Electrical data Protective circuit Performance data Supply voltage U _B Power consumption, max. Inputs/outputs selectable	18 30 V, DC 9 W
Electrical data Protective circuit Performance data Supply voltage U _B Power consumption, max.	18 30 V, DC

EtherCAT Process Function Process Transmission protocol EtherCAT, CoE and EoE Service interface USB 2.0 USB Configuration via software Function Configuration via software Service Service Connection 1 Piece(s) Connection 1 Connection to device Function BUS IN Connection to device Data interface PWR / SW IN / OUT Service interface Type of connection Plug connector, It is essential to use a	Туре	EtherCAT	
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Ambient temperature, operation0 40 °CAmbient temperature, storage-20 70 °C	Operational controls	Button(s)	
Ambient temperature, storage -20 70 °C	Environmental data		
	Ambient temperature, operation	0 40 °C	
Relative humidity (non-condensing) 0 90 %	Ambient temperature, storage	-20 70 °C	
	Deletive humidity (new condensing)	0 90 %	

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Input current, max.

Number of inputs/outputs selectable 2 Piece(s)

8 mA

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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

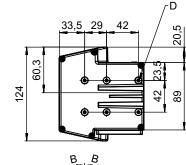
Classification

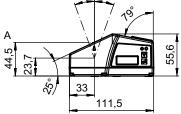
Customs tariff number	84719000
ECLASS 5.1.4	27280102
ECLASS 8.0	27280102
ECLASS 9.0	27280102
ECLASS 10.0	27280102
ECLASS 11.0	27280102
ECLASS 12.0	27280102
ECLASS 13.0	27280102
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550

Dimensioned drawings

All dimensions in millimeters

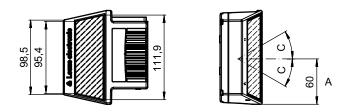








- B Swivel angle of the laser beam: $\pm 20^{\circ}$
- C Deflection angle of the laser beam: \pm 30 $^\circ$
- D M4 thread (5 mm deep)



Electrical connection

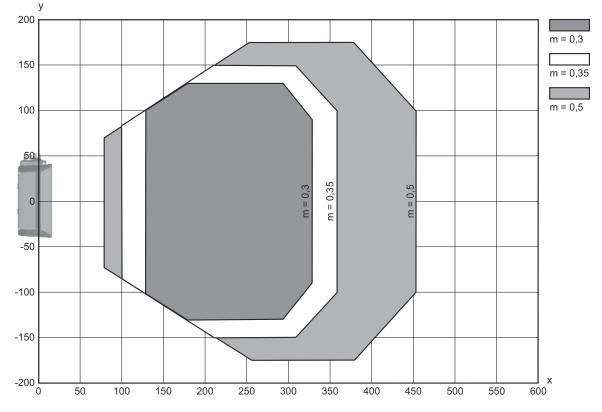
Connection 1

Function	BUS IN
	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

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Reading field curve



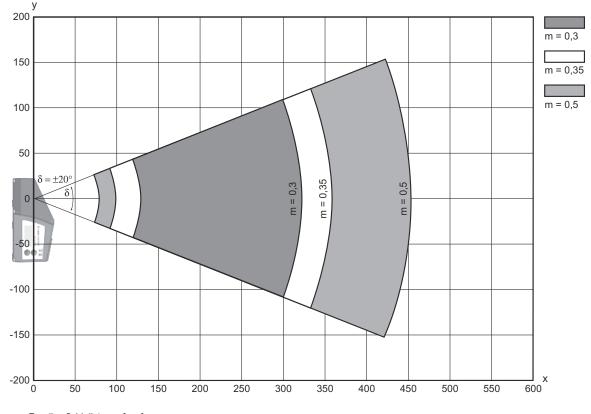
x Reading field distance [mm]

y Reading field width [mm]

Diagrams

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Lateral reading field curve



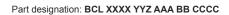
x Reading field distance [mm]

y Reading field height [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

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 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)
ΑΑΑ	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

Notes

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Observe intended use!

- $\ensuremath{^{\textcircled{\tiny \$}}}$ This product is not a safety sensor and is not intended as personnel protection.
- $\ensuremath{\mathfrak{b}}$ The product may only be put into operation by competent persons.
- ♦ 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.

Accessories

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Connection technology - Connection cables

	Part no.	Designation	Article	Description
W D	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
Ŵ	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
60	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
 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
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 Shock absorber: No

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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: 100 mm x 100 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive

Services

	Part no.	Designation	Article	Description
₽ ©	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. Restrictions: Travel and accommodation charged separately and according to expenditure.
у. С	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	Details: REA evaluation with creation of a test report, evaluation of the code quality. Conditions: Original bar codes to be provided by the client.

