

Technical data sheet Stationary bar code reader

Part no.: 50120775

BCL 358i SF 102



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Technical data



BCL 300i
Alignment mode
AutoConfig
AutoControl
AutoReflAct
Code fragment technology
LED indicator
Reference code comparison
110 years
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
64 Piece(s)
100 475 mm
Laser, Red
655 nm
2, IEC/EN 60825-1:2007
Continuous 60 °
00
0.3 0.8 mm
Line scanner
Via rotating polygon wheel
Front
Front
Front Polarity reversal protection
Polarity reversal protection
Polarity reversal protection 18 30 V, DC
Polarity reversal protection
Polarity reversal protection 18 30 V, DC 4.5 W
Polarity reversal protection 18 30 V, DC
Polarity reversal protection 18 30 V, DC 4.5 W
Polarity reversal protection 18 30 V, DC 4.5 W 60 mA
Polarity reversal protection 18 30 V, DC 4.5 W 60 mA 2 2 Piece(s)

	E	
	EtherNet IP Function	Process
	Address assignment	DHCP
4	Address assignment	
	Switch functionality	Manual address assignment Integrated
	Switch functionality Transmission speed	10 Mbit/s
	Transmission speed	100 Mbit/s
		Editaly DOI
Se	rvice interface	
Тур	ne .	USB
.,,		000
	USB	
1	Function	Configuration via software
Co	onnection	
		15: ()
Nu	mber of connections	1 Piece(s)
	Connection 1	
	Function	BUS IN
		Connection to device
		Data interface
		PWR / SW IN / OUT
		Service interface
	Type of connection	Plug connector
1	No. of pins	32 -pin
-	Туре	Male
IVIE	echanical data	
	sign	Cubic
	nension (W x H x L)	95 mm x 44 mm x 68 mm
	using material	Metal, Diecast aluminum
	ns cover material	Glass
	t weight	270 g Black
по	using color	Red
Tvo	pe of fastening	Dovetail grooves
ıyı	be of fastering	Fastening on back
		Via optional mounting device
		The optional mounting dovice
Op	peration and display	
Тур	pe of display	LED
Nu	mber of LEDs	2 Piece(s)
Тур	oe of configuration	Via web browser
En	vironmental data	
An	bient temperature, operation	0 40 °C
	nbient temperature, storage	-20 70 °C
Re	lative humidity (non-condensing)	0 90 %

Technical data



Certifications

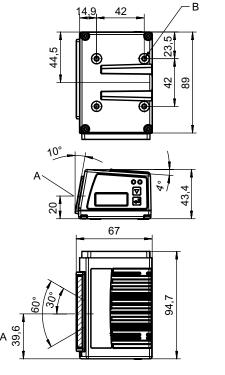
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	EN 61000-4-2, -3, -4, -6
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with standard	IEC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

Classification

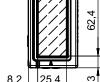
Customs tariff number	84719000	
eCl@ss 8.0	27280102	
eCl@ss 9.0	27280102	
eCl@ss 10.0	27280102	
eCl@ss 11.0	27280102	
ETIM 5.0	EC002550	
ETIM 6.0	EC002550	

Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- M4 thread (5 deep)



Electrical connection

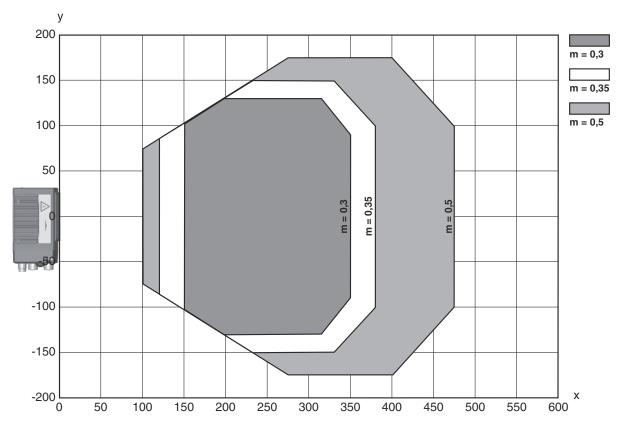
Connection 1

Function	BUS IN
	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



- x Reading field distance [mm]
- y 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 NET	Green, flashing	Initialization
	Green, continuous light	Bus operation ok
	Red, flashing	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!



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

Notes





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!
- by CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- b 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.

- Shiftix 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
Ů	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

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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
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

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
В	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.

Note



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