



the sensor people





Part no.: 50116221 BCL 300i SN 100 D H Stationary bar code reader











Figure can vary

Contents

- Technical data
- Dimensioned drawings
- Electrical connection
- Diagrams
- Operation and display
- · Part number code
- Notes
- Accessories



Technical data

Series BCL 300i Special design Special design Functions		
Special design Functions Functions Functions Alignment mode AutoConfig Au	Basic data	
Special design Functions Functions Functions Alignment mode AutoConfig AutoConfig AutoConfig AutoConfig Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years Code types, readable Code types, readable Code types, readable Code types, readable Code 30 Code	Series	BCL 300i
Special design Functions Functions Functions Alignment mode AutoConfig AutoConfig AutoConfig AutoConfig Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years Code types, readable Code types, readable Code types, readable Code types, readable Code 30 Code		
Functions Alignment mode Auto-Control AutoRellAct Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years **Read data** Code types, readable Codebar Code by C	Special design	
Functions Alignment mode AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoRelfAct Code fragment technology Heating 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 Databar Limited GS1 Databar Complexity GS2 Databar Code 39	Special design	Heating
Functions Alignment mode AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoConfig AutoRelfAct Code fragment technology Heating 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 Databar Limited GS1 Databar Complexity GS2 Databar Code 39		
AutoConfroit AutoReflAct Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years Read data Code types, readable 215 Interleaved Codebar Code 128 Code 93 EAN 8/13 EAN 8/13 CODE 93 EAN 8/13 EAN 8	Functions	
AutoCentrol AutoReflact Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years Read data Code types, readable Code types, readable Code types, readable Code types, readable Code 128 Code 39 Code 30 C	Functions	
AutoReflAct Code fragment technology Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years Read data Code types, readable Code types, readable Code types, readable Code types, readable Code 32 Code 32 Code 32 Code 33 EAN 8/13 GS1 Databar Expanded GS1 Databar Unitied GS1 Databar Code and UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 44 Piece(s) Optical data Reading distance 20 130 mm Light source Laser light wavelength 655 nm Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 * Modulus size 0,127 0.2 mm Reading method Line scanner with deflecting mirror Electrical data Protective circuit Polarity reversal protection Polarity reversal protection Polarity reversal protection Polarity reversal protection Polarity reversal protection Polarity reversal protection Polarity reversal protection		AutoConfig AutoControl
Heating LED indicator Reference code comparison Characteristic parameters MTTF 110 years MTTF 110 years Read data Code types, readable 2/5 Interleaved Codabar Code 128 Code 39 Code 30 C		AutoReflAct
LED indicator Reference code comparison Characteristic parameters MTTF 110 years Read data Code types, readable Code types, readable Code types, readable Code types, readable Code types, readable Code types, readabl		
Characteristic parameters MTTF 110 years Read data Code types, readable 2/5 Interleaved Codabar Code 128 Code 39 Code 30 Co		LED indicator
Read data Code types, readable Code 39 Code 39 Code 39 Code 39 EAN 8/13 GS1 Databar Expanded GS1 Databar Expanded GS1 Databar Comidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number Coptical date Reading distance Laser light wavelength Laser light wavelength Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) Modulus size 0.127 0.2 mm Reading method Line scanner with deflecting mirror Electrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		Reference code comparison
Read data Code types, readable Code 39 Code 39 Code 39 Code 39 EAN 8/13 GS1 Databar Expanded GS1 Databar Expanded GS1 Databar Comidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number Coptical date Reading distance Laser light wavelength Laser light wavelength Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) Modulus size 0.127 0.2 mm Reading method Line scanner with deflecting mirror Electrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		
Read data Code types, readable Code 38 Code 39 Code 39 Code 39 Code 39 Solar Batabar Expanded GS1 Databar Expanded GS1 Databar Comidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance Light source Laser light wavelength 655 nm Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60° Modulus size 0,127 0,2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		1112
Code types, readable 2/5 Interleaved Codabar Code 128 Code 39 Code 33 EAN 8/13 GS1 Databar Expanded GS1 Databar Emilied GS1 Databar Limited GS1 Databar Commidificational UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance Laser , Red Laser light wavelength 655 nm Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0,127 0,2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Electrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC	MIIF	110 years
Code types, readable 2/5 Interleaved Codabar Code 128 Code 39 Code 33 EAN 8/13 GS1 Databar Expanded GS1 Databar Emilied GS1 Databar Limited GS1 Databar Commidificational UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance Laser , Red Laser light wavelength 655 nm Laser class 2, IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0,127 0,2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Electrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		
Codabar Code 128 Code 39 Code 39 Code 33 EAN 8/13 GS1 Databar Limited GS1 Databar Limited GS1 Databar Comidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0,127 0.2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Performance data Supply voltage UB 18 30 V , DC		0/5111
Code 39 Code 93 EAN 8/13 GS1 Databar Expanded GS1 Databar Limited GS1 Databar Limited GS1 Databar Limited GS1 Databar Expanded GS1 Databar Commidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC	Code types, readable	
Code 93 EAN 8/13 GS1 Databar Expanded GS1 Databar Expanded GS1 Databar Expanded GS1 Databar Cumited GS1 Databar Cumidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 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 Flectrical data Protective circuit Polarity reversal protection		
GS1 Databar Expanded GS1 Databar Limited GS1 Databar Limited GS1 Databar Comnidirectional UPC Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical date Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 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		
GS1 Databar Limitled 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 20 130 mm Light source Laser , Red Laser , Red Laser light wavelength 655 nm Laser class 2 , IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0.127 0.2 mm Reading method Line scanner with deflecting mirror Beam deflection By means of rotating polygon mirror wheel + deflecting mirror Light beam exit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		
Scanning rate, typical 1,000 scans/s Bar codes per reading gate, max. number 64 Piece(s) Optical data Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC		
Scanning rate, typical Bar codes per reading gate, max. number 64 Piece(s) Optical data 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 opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC		
Bar codes per reading gate, max. number Optical data Reading distance Light source Laser , Red Laser light wavelength Easer class Continuous C	Scanning rate, typical	
Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC		· · · · · · · · · · · · · · · · · · ·
Reading distance 20 130 mm 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 opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC		
Light source Laser light wavelength 655 nm Laser class 2 , IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC	Optical data	
Laser light wavelength Laser class 2 , IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC	Reading distance	20 130 mm
Laser class 2 , IEC/EN 60825-1:2007 Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC	Light source	Laser , Red
Transmitted-signal shape Continuous Usable opening angle (reading field opening) 60 ° Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V, DC	Laser light wavelength	655 nm
Usable opening angle (reading field opening) Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC	Laser class	2 , IEC/EN 60825-1:2007
Modulus size 0.127 0.2 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 Supply voltage UB 18 30 V , DC	Transmitted-signal shape	Continuous
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 Supply voltage UB 18 30 V , DC	Usable opening angle (reading field opening)	60 °
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 Supply voltage UB 18 30 V , DC	Modulus size	0.127 0.2 mm
Light beam exit Lateral with deflecting mirror Electrical data Protective circuit Performance data Supply voltage UB 18 30 V , DC	Reading method	Line scanner with deflecting mirror
Electrical data Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC	Beam deflection	By means of rotating polygon mirror wheel + deflecting mirror
Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC	Light beam exit	Lateral with deflecting mirror
Protective circuit Polarity reversal protection Performance data Supply voltage UB 18 30 V , DC		
Performance data Supply voltage UB 18 30 V , DC		
Supply voltage U_B 18 30 V , DC	Protective circuit	Polarity reversal protection
Power consumption, max. 27 W		
	Power consumption, max.	27 W



Output current, max.	60 mA			
Number of inputs/outputs selectable	2 Piece(s)	2 Piece(s)		
Input current, max.	8 mA			
nterface				
уре	RS 232 , RS 422			
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 stop bits			
Parity	Adjustable			
Transmission protocol	<stx><data><cr><lf></lf></cr></data></stx>			
Data encoding	ASCII			
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			
ervice interface				
уре	USB			

Service interface		
Туре	USB	
USB		
Function	Configuration via software	

Connection				
Number of connections	1 Piece(s)			
Connection 1				
Function	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			

Mechanical data		
Design	Cubic	
Dimension (W x H x L)	103 mm x 44 mm x 96 mm	
Housing material	Metal , Diecast aluminum	
Lens cover material	Glass	
Net weight	370 g	



Housing color	Black Red
Type of fastening	Dovetail grooves Fastening on back Via optional mounting device
Oneration and display	
Operation and display	·
Type of display	LED Monochromatic graphic display, 128 x 32 pixels
Number of LEDs	2 Piece(s)
Type of configuration	Via web browser
Environmental data	
Ambient temperature, operation	-35 40 °C
Ambient temperature, storage	-20 70 °C
Relative humidity (non-condensing)	0 90 %
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance with standard	EN 55022 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

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

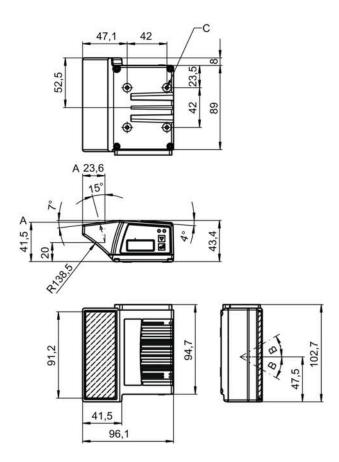
IEC 60068-2-6, test Fc

Dimensioned drawings

Test procedure for vibration in accordance with standard

All dimensions in millimeters





A Optical axis B Deflection angle of the laser beam: \pm 30 $^{\circ}$

C M4 thread (5 deep)

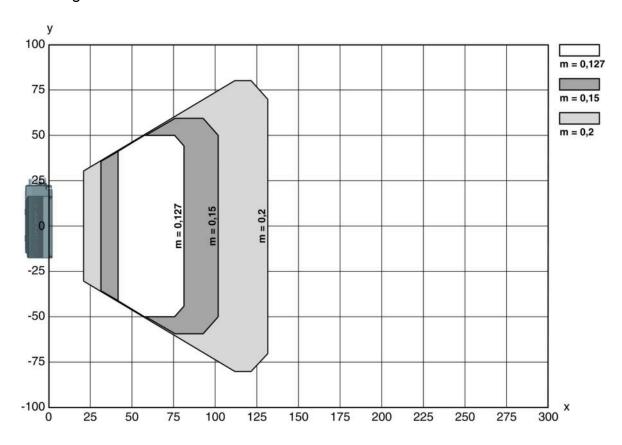
Electrical connection

Connection 1	
Function	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



Diagrams

Reading field curve



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

Operation and display

LEDs

LED	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

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!

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

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!
- CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- · 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, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



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
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

Connection technology - Interconnection cables

	Part no.	Designation	Article	Description
5	50114571 *	KB 301-3000	Interconnection cable	Suitable for interface: RS 232, RS 422, RS 485 Connection 1: Socket connector Connection 2: JST ZHR, 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

Mounting technology - Mounting brackets

Par	art no.	Designation	Article	Description
5012	21433 E	BT 300 W	S	Contains: 4x M4 x 10 screw, 4x position washers, 4x lock washers 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

Leuze electronic GmbH + Co. KG, In der Braike 1, 73277 Owen Phone: +49 7021 573-0, Fax: +49 7021 573-199



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

Reflective tapes for standard applications

Part no.	Designation	Article	Description
50106119	REF 4-A-100x100	·	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
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.



F	Part no.	Designation	Article	Description
######################################	981021		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 electronic website in the Download tab of the article detailed page.