

Technical data sheet Stationary bar code reader

Part no.: 50116427

BCL 348i R1 F 100 D



Contents

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











Technical data



Series	BCL 300i
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	
Journing rate, typical	1,000 SCans/S
Bar codes per reading gate, max.	1,000 scans/s 64 Piece(s)
Scanning rate, typical Bar codes per reading gate, max. number Optical data	64 Piece(s)
Bar codes per reading gate, max. number Optical data Reading distance	64 Piece(s) 70 445 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source	64 Piece(s) 70 445 mm Laser, Red
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength	64 Piece(s) 70 445 mm Laser, Red 655 nm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field	64 Piece(s) 70 445 mm Laser, Red 655 nm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening)	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 °
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 °
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening)	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s)
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm Electrical data	64 Piece(s) 70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm Electrical data	70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm
Bar codes per reading gate, max. number Optical data Reading distance Light source Wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Raster (number of lines) Scanning field at scanner distance of 100 mm Scanning field at scanner distance of 200 mm Scanning field at scanner distance of 300 mm Scanning field at scanner distance of 400 mm Electrical data Protective circuit	70 445 mm Laser, Red 655 nm 1, IEC/EN 60825-1:2014 Continuous 60 ° 0.3 0.5 mm Raster scanner with deflecting mirror By means of rotating polygon mirror wheel + deflecting mirror Lateral with deflecting mirror 8 Piece(s) 17 mm 27 mm 38 mm

	Output current, max.	60 mA		
Number of inputs/outputs selectable input current, max.		2 Piece(s)		
		8 mA		
Int	erface			
Туј	ре	PROFINET		
	PROFINET			
	Function	Process		
	Conformance class	В		
	Protocol	PROFINET RT		
	Switch functionality	Integrated		
	Transmission speed	10 Mbit/s		
		100 Mbit/s		
Se	rvice interface			
Туј	De	USB 2.0		
٠.				
	USB			
	Function	Configuration via software		
		Service		
Cc	onnection			
Mii	mber of connections	1 Piece(s)		
Nu	inber of connections	i riece(s)		
	Connection 1			
	Function	BUS IN		
	i direttori	BUS OUT		
		Connection to device		
		Data interface		
		PWR / SW IN / OUT		
		Service interface		
	Type of connection	Plug connector, It is essential to use a		
	Type of connection	Plug connector, It is essential to use a connection unit when commissioning the		
		Plug connector, It is essential to use a connection unit when commissioning the device.		
	No. of pins	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin		
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VIe	No. of pins Type echanical data	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin		
Me De	No. of pins Type echanical data sign	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male		
Me De	No. of pins Type echanical data sign nension (W x H x L)	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm		
Me De Dir	No. of pins Type chanical data sign mension (W x H x L) using material	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal		
Me Der Dir Ho	No. of pins Type chanical data sign mension (W x H x L) using material stal housing	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum		
Me Dir Ho Me	No. of pins Type chanical data sign mension (W x H x L) using material tal housing ns cover material	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass		
Me Dir Ho Me	No. of pins Type chanical data sign mension (W x H x L) using material tal housing ns cover material t weight	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g		
Me Dir Ho Me	No. of pins Type chanical data sign mension (W x H x L) using material tal housing ns cover material	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red		
Me Dir Ho Me Lei Ne	No. of pins Type echanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver		
Me Dir Ho Me Lei Ne	No. of pins Type chanical data sign mension (W x H x L) using material tal housing ns cover material t weight	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves		
Me Dir Ho Me Lei Ne	No. of pins Type echanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver		
Me Dir Ho Me Lei Ne	No. of pins Type echanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves		
Me Dir Ho Vie Le Ho	No. of pins Type chanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color pe of fastening	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back		
Me Dir Ho Me Le Ho	No. of pins Type echanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back		
Me Dir Ho Me Lei Ne Ho	No. of pins Type chanical data sign mension (W x H x L) using material ttal housing ns cover material t weight using color pe of fastening	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back		
Me De Dir Ho Me Le Ho	No. of pins Type chanical data sign mension (W x H x L) using material stal housing ns cover material t weight using color pe of fastening peration and display	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32		
Me De Dir Ho Me Le Ho Tyl	No. of pins Type chanical data sign mension (W x H x L) using material stal housing ns cover material t weight using color pe of fastening peration and display pe of display	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device		
Me Dir Ho Me Le Ne Ho	No. of pins Type chanical data sign mension (W x H x L) using material stal housing ns cover material t weight using color pe of fastening peration and display	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32		
Me De Dir Ho Vie Ho Tyl	No. of pins Type chanical data sign mension (W x H x L) using material stal housing ns cover material t weight using color pe of fastening peration and display pe of display	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels		
Me Dir Ho Me Le Ne Ho Tyl	No. of pins Type chanical data sign mension (W x H x L) using material data housing ns cover material t weight using color pe of fastening peration and display mber of LEDs	Plug connector, It is essential to use a connection unit when commissioning the device. 32 -pin Male Cubic 103 mm x 44 mm x 96 mm Metal Diecast aluminum Glass 350 g Red Silver Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s)		

Inputs/outputs selectable

Technical data

Leuze

Environmental data

Ambient temperature, operation	0 40 °C
Ambient temperature, storage	-20 70 °C
Relative humidity (non-condensing)	0 90 %

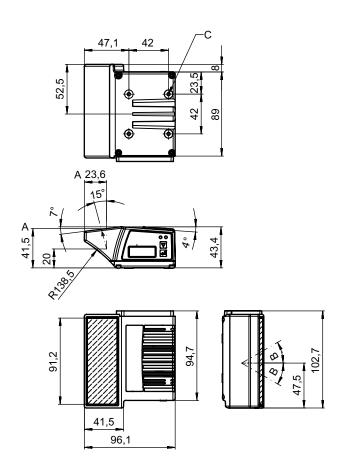
Certifications	
Degree of protection	IP 65
Protection class	III
Certifications	c UL US
Test procedure for EMC in accordance	EN 55022
with standard	EN 61000-4-2, -3, -4, -6
Test procedure for shock in accordance with standard	IEC 60068-2-27, test Ea
Test procedure for continuous shock in accordance with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

Classification

84719000
27280102
27280102
27280102
27280102
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27280102
27280102
EC002550
EC002550
EC002550

Dimensioned drawings

All dimensions in millimeters



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

Electrical connection

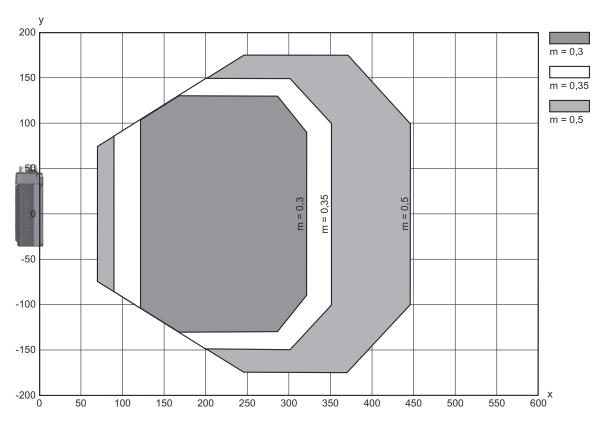


Connection 1

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	

Operation and display



LED		Display	Meaning	
1 F	PWR	Red, flashing	Device OK, warning set	
		Red, continuous light	Error, device error	
2 E	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 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!



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

Notes





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.

- 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.

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
Ů D	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

Accessories



Connection technology - Connection boxes

	Part no.	Designation	Article	Description
6	50131256 *	ME 348 103	Connection unit	Suitable for: BCL 348i Interface: PROFINET Number of connections: 4 Piece(s) Connection: Cable with connector, M12, 900 mm
6	50131259 *	ME 348 104	Connection unit	Suitable for: BCL 348i Interface: PROFINET Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 900 mm
6	50131258 *	ME 348 214	Connection unit	Suitable for: BCL 348i Interface: PROFINET Number of connections: 5 Piece(s) Connection: Cable with connector, M12, 600 mm
	50116467 *	MK 348	Connection unit	Suitable for: BCL 348i, BPS 348i Interface: PROFINET Number of connections: 4 Piece(s) Connection: Terminal
	50116471 *	MS 348	Connection unit	Suitable for: BCL 348i, BPS 348i Supply voltage: DC Interface: PROFINET 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

Accessories



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

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	C\$30-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.
	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	C\$30-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.