

IDENTIFICATION

CODES SIMPLIFY COMMUNICATION IN AUTOMATION

The identification of bar codes, 2D-codes and RFID transponders is among our core competencies. Our broad product spectrum of IDENT technologies opens up maximum flexibility to our customers. These products ensure absolute reliability and maximum system availability. Discover our world of IDENT products.

"Every sensor is only as good as the options for integration in a system control. With the term integrated connectivity, we therefore place great importance on directly equipping our devices with the most common fieldbus interfaces. In this way, we save our customers a great amount of wiring work and additional connector units."

Armin Claus,
Director of the Product Center – Ident and Vision Systems



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/ BAR CODE IDENTIFICATION

BAR CODE READING MADE EASY

In production and logistics, the identification of goods and materials through universally usable bar codes controls many processes. The area of application of readers is correspondingly broad – from mobile hand-held operation to high-speed scanners for industrial applications.

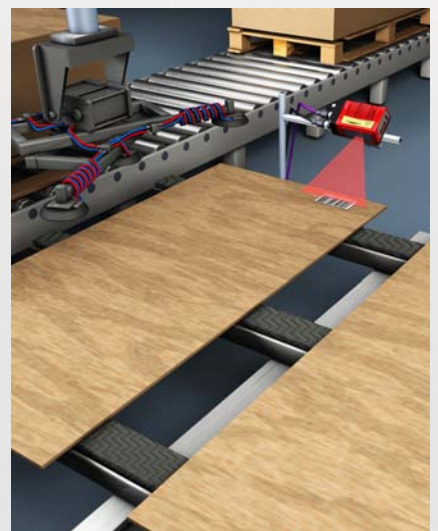


Stationary Bar Code Readers

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Mobile Bar Code Readers

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//STATIONARY BAR CODE READERS

FAST AND EXACT SOLUTIONS

Select the right line and raster scanner from various sizes, designs and performance levels. Scanning rates of up to 1000 scans/s, the smallest installation dimensions, robust housings and integrated heating for use in deep-freeze areas meet the individual requirements of your application.

/// BCL 8



The BCL 8 bar code reader is a bar code reader with integrated decoder for all common bar codes including Pharmacode. Available as a robust industrial version in a metal housing.



Benefits:

- Compact construction for confined space conditions, e. g. in printers or packaging systems
- Large reading field with great depth of field for variable modulus sizes
- autoConfig automatically detects the code type that is to be read
- autoRefIAct enables automatic triggering without additional photoelectric sensor
- M12 connection technology and ready-made cables
- Numerous connector units from the MA 8/MA 200i series for all well-known bus systems (PROFIBUS, PROFINET, DeviceNet, EtherNet TCP/IP, Ethernet/IP, Ethercat or CANopen).
- RS 232 interface (with option of changing to the integrated daisy chain)

Direct access to the online product selector at www.leuze.com/en/bcl8

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50038948	BCL 8 SM 552	Line scanner front	RS 232	40 ... 160 mm	0.15 ... 0.5 mm	600 scans/s	0 ... 40 °C
50038949	BCL 8 SM 102	Line scanner front	RS 232	40 ... 160 mm	0.15 ... 0.5 mm	600 scans/s	0 ... 40 °C
50105420	BCL 8 SN 552	Line scanner front	RS 232	50 ... 110 mm	0.12 ... 0.4 mm	500 scans/s	0 ... 40 °C
50105418	BCL 8 SN 102	Line scanner front	RS 232	50 ... 110 mm	0.12 ... 0.4 mm	500 scans/s	0 ... 40 °C
50040229	BCL 8 SM 100	Line scanner lateral with deflecting mirror	RS 232	25 ... 145 mm	0.15 ... 0.5 mm	600 scans/s	0 ... 40 °C
50040230	BCL 8 SM 550	Line scanner lateral with deflecting mirror	RS 232	25 ... 145 mm	0.15 ... 0.5 mm	600 scans/s	0 ... 40 °C
50105417	BCL 8 SN 100	Line scanner lateral with deflecting mirror	RS 232	35 ... 95 mm	0.12 ... 0.4 mm	500 scans/s	0 ... 40 °C
50105419	BCL 8 SN 550	Line scanner lateral with deflecting mirror	RS 232	35 ... 95 mm	0.12 ... 0.4 mm	500 scans/s	0 ... 40 °C

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/// BCL 21/22



These stationary high-speed scanners offer a space-saving solution for industrial environments and are equipped with a fail-safe parameter memory.



CDRH

Benefits:

- Various optics models for optimum use of the installation space
- Depending on the code alignment, single-line or raster scanners offer optimized reading capacity
- Large depth of field and wide opening angle
- autoConfig automatically detects the code type that is to be read
- The BCL Config Tool simplifies all configuration tasks

Direct access to the online product selector at www.leuze.com/en/bcl21_22

PART NUMBER CODES – stationary bar code readers BCL 21/22

B C L 2 1 S N 2 1 0

Model

BCL Bar code reader

Host interface

21 RS 485

22 RS 232

Reading characteristics

S Single-line scanner

R1 Raster scanner

Resolution/range

N High Density up to 95 mm

B Medium Density up to 220 mm

M Medium Density up to 260 mm

F Low Density up to 450 mm

Connector

2 PCB (PCB connector to MA 2/MA 4...)

3 SUB-D 15-pin

Connection cable length

0 0.8 m

1 3.0 m

Beam exit

0 Perpendicular

2 Front

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
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RS 485 Interface

50031072	BCL 21 S N 302	Line scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032030	BCL 21 S N 212	Line scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50030987	BCL 21 S N 202	Line scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032034	BCL 21 S N 312	Line scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50117070	BCL 21 S B 202	Line scanner front	RS 485	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50114707	BCL 21 S B 302	Line scanner front	RS 485	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50031720	BCL 21 S M 212	Line scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031078	BCL 21 S M 302	Line scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032049	BCL 21 S M 312	Line scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50030989	BCL 21 S M 202	Line scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032065	BCL 21 S F 312	Line scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031086	BCL 21 S F 302	Line scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032061	BCL 21 S F 212	Line scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50031082	BCL 21 S F 202	Line scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50030986	BCL 21 S N 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032028	BCL 21 S N 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50031070	BCL 21 S N 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032032	BCL 21 S N 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50114706	BCL 21 S B 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50117069	BCL 21 S B 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032047	BCL 21 S M 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031076	BCL 21 S M 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032044	BCL 21 S M 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50030988	BCL 21 S M 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032059	BCL 21 S F 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031084	BCL 21 S F 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032063	BCL 21 S F 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031080	BCL 21 S F 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061287	BCL 21 R1 N 302	Raster scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032042	BCL 21 R1 N 312	Raster scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061283	BCL 21 R1 N 202	Raster scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032038	BCL 21 R1 N 212	Raster scanner front	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032057	BCL 21 R1 M 312	Raster scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032053	BCL 21 R1 M 212	Raster scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061295	BCL 21 R1 M 302	Raster scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061291	BCL 21 R1 M 202	Raster scanner front	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032069	BCL 21 R1 F 212	Raster scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061299	BCL 21 R1 F 202	Raster scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061303	BCL 21 R1 F 302	Raster scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032073	BCL 21 R1 F 312	Raster scanner front	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061285	BCL 21 R1 N 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061281	BCL 21 R1 N 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032036	BCL 21 R1 N 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032040	BCL 21 R1 N 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061293	BCL 21 R1 M 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032055	BCL 21 R1 M 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061289	BCL 21 R1 M 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032051	BCL 21 R1 M 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032071	BCL 21 R1 F 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061297	BCL 21 R1 F 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032067	BCL 21 R1 F 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061301	BCL 21 R1 F 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 485	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C

RS 232 Interface

50061451	BCL 22 S N 212	Line scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032080	BCL 22 S N 312	Line scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50031090	BCL 22 S N 202	Line scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C

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Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50030991	BCL 22 S N 302	Line scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50117072	BCL 22 S B 202	Line scanner front	RS 232	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50114715	BCL 22 S B 302	Line scanner front	RS 232	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032093	BCL 22 S M 212	Line scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50030993	BCL 22 S M 302	Line scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032097	BCL 22 S M 312	Line scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031096	BCL 22 S M 202	Line scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032108	BCL 22 S F 212	Line scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031102	BCL 22 S F 202	Line scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031106	BCL 22 S F 302	Line scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032112	BCL 22 S F 312	Line scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50030990	BCL 22 S N 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032075	BCL 22 S N 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032078	BCL 22 S N 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50031088	BCL 22 S N 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50114714	BCL 22 S B 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50117071	BCL 22 S B 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 220 mm	0.165 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032091	BCL 22 S M 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032095	BCL 22 S M 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50030992	BCL 22 S M 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031094	BCL 22 S M 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031104	BCL 22 S F 300	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032106	BCL 22 S F 210	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50031100	BCL 22 S F 200	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032110	BCL 22 S F 310	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061307	BCL 22 R1 N 202	Raster scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061311	BCL 22 R1 N 302	Raster scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032084	BCL 22 R1 N 212	Raster scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032089	BCL 22 R1 N 312	Raster scanner front	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061315	BCL 22 R1 M 202	Raster scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032101	BCL 22 R1 M 212	Raster scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032104	BCL 22 R1 M 312	Raster scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061319	BCL 22 R1 M 302	Raster scanner front	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50032120	BCL 22 R1 F 312	Raster scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061323	BCL 22 R1 F 202	Raster scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032116	BCL 22 R1 F 212	Raster scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061327	BCL 22 R1 F 302	Raster scanner front	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032082	BCL 22 R1 N 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50032087	BCL 22 R1 N 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061309	BCL 22 R1 N 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061305	BCL 22 R1 N 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 95 mm	0.15 ... 0.5 mm	800 scans/s	0 ... 40 °C
50061317	BCL 22 R1 M 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50031704	BCL 22 R1 M 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061313	BCL 22 R1 M 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50032099	BCL 22 R1 M 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	50 ... 260 mm	0.2 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50061325	BCL 22 R1 F 300	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50061321	BCL 22 R1 F 200	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032118	BCL 22 R1 F 310	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C
50032114	BCL 22 R1 F 210	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232	80 ... 450 mm	0.5 ... 1 mm	800 scans/s	0 ... 40 °C

/// BCL 300i



These modular, stationary bar code readers feature code fragment technology and numerous equipment features. Also unique is the modular connection technology.



Benefits:

- Integrated fieldbus connectivity (PROFIBUS, PROFINET, EtherNet, EtherNet/IP, TCP/IP, multiNet, RS 232/422/485) with Ethernet switch function (for linear topology)
- Full CRT (code reconstruction technology) also detects heavily damaged or soiled codes
- webConfig is a operating-system independent, browser-based configuration tool
- High-quality optics with great depth of field and large opening angle
- Compact housing design for problem-free placement directly at the conveyor line
- Modular connector hood, terminal hood and terminal box and graphical display
- All optics models are also available with optional heating

Direct access to the online product selector at www.leuze.com/en/bcl300i

PART NUMBER CODES – stationary bar code readers BCL 300i

B C L 3 0 0 i S N 1 0 0 H

Model

BCL Bar code reader

Interface (integrated fieldbus technology)

300i RS 232/RS 422 (standalone)

301i RS 485 (multiNet slave)

304i PROFIBUS DP

308i EtherNet TCP/IP, UDP

348i PROFINET RT

358i EtherNet/IP

Scanning principle

S Line scanner (single line)

R1 Line scanner (raster)

O Oscillating mirror scanner (oscillating mirror)

Optics

N High Density (near)

M Medium Density (medium distance)

F Low Density (remote)

L Long Range (very large distance)

J Ink-jet (depends on application)

Beam exit

100 Lateral

102 Front

Option

D With display

H With heating

DH With display and heating

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Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
RS 232, RS 422 interface							
50116224	BCL 300i SN 102 D H	Line scanner front	RS 232, RS 422	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116226	BCL 300i SN 102	Line scanner front	RS 232, RS 422	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116225	BCL 300i SN 102 D	Line scanner front	RS 232, RS 422	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116219	BCL 300i SM 102 D	Line scanner front	RS 232, RS 422	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116218	BCL 300i SM 102 D H	Line scanner front	RS 232, RS 422	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116220	BCL 300i SM 102	Line scanner front	RS 232, RS 422	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116208	BCL 300i SF 102	Line scanner front	RS 232, RS 422	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116207	BCL 300i SF 102 D	Line scanner front	RS 232, RS 422	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116206	BCL 300i SF 102 D H	Line scanner front	RS 232, RS 422	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116214	BCL 300i SL 102	Line scanner front	RS 232, RS 422	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116212	BCL 300i SL 102 D H	Line scanner front	RS 232, RS 422	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116213	BCL 300i SL 102 D	Line scanner front	RS 232, RS 422	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116223	BCL 300i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116221	BCL 300i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116222	BCL 300i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116215	BCL 300i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116217	BCL 300i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116216	BCL 300i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116203	BCL 300i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116205	BCL 300i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116204	BCL 300i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116209	BCL 300i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116210	BCL 300i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116211	BCL 300i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116201	BCL 300i R1 N 102 D	Raster scanner front	RS 232, RS 422	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116202	BCL 300i R1 N 102	Raster scanner front	RS 232, RS 422	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116197	BCL 300i R1 M 102 D	Raster scanner front	RS 232, RS 422	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116198	BCL 300i R1 M 102	Raster scanner front	RS 232, RS 422	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116194	BCL 300i R1 F 102	Raster scanner front	RS 232, RS 422	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116193	BCL 300i R1 F 102 D	Raster scanner front	RS 232, RS 422	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116199	BCL 300i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116200	BCL 300i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116195	BCL 300i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116196	BCL 300i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116192	BCL 300i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116191	BCL 300i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50123508	BCL 300i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116186	BCL 300i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116187	BCL 300i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116185	BCL 300i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116180	BCL 300i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116179	BCL 300i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50116181	BCL 300i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116182	BCL 300i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116183	BCL 300i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116184	BCL 300i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C

PROFINET interface

50116462	BCL 348i SN 102	Line scanner front	PROFINET	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	Switching Sensors
50116461	BCL 348i SN 102 D	Line scanner front	PROFINET	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116460	BCL 348i SN 102 D H	Line scanner front	PROFINET	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C	
50116454	BCL 348i SM 102 D H	Line scanner front	PROFINET	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C	Measuring Sensors
50116455	BCL 348i SM 102 D	Line scanner front	PROFINET	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116456	BCL 348i SM 102	Line scanner front	PROFINET	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116444	BCL 348i SF 102	Line scanner front	PROFINET	100 ... 475 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	Products for Safety at Work
50116443	BCL 348i SF 102 D	Line scanner front	PROFINET	100 ... 475 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116442	BCL 348i SF 102 D H	Line scanner front	PROFINET	100 ... 475 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C	
50116449	BCL 348i SL 102 D	Line scanner front	PROFINET	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C	Identification
50116450	BCL 348i SL 102	Line scanner front	PROFINET	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C	
50116448	BCL 348i SL 102 D H	Line scanner front	PROFINET	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C	
50116459	BCL 348i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	Data Transmission / Control Components
50116457	BCL 348i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C	
50116458	BCL 348i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116451	BCL 348i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	Industrial Image Processing
50116452	BCL 348i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C	
50116453	BCL 348i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116441	BCL 348i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 445 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	Accessories
50116440	BCL 348i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 445 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116439	BCL 348i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 445 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C	
50116446	BCL 348i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C	
50116445	BCL 348i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C	
50116447	BCL 348i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C	
50116437	BCL 348i R1 N 102 D	Raster scanner front	PROFINET	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116438	BCL 348i R1 N 102	Raster scanner front	PROFINET	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116434	BCL 348i R1 M 102	Raster scanner front	PROFINET	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116433	BCL 348i R1 M 102 D	Raster scanner front	PROFINET	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116430	BCL 348i R1 F 102	Raster scanner front	PROFINET	100 ... 475 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116429	BCL 348i R1 F 102 D	Raster scanner front	PROFINET	100 ... 475 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116436	BCL 348i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116435	BCL 348i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C	
50116432	BCL 348i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116431	BCL 348i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116427	BCL 348i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 445 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50116428	BCL 348i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	70 ... 445 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C	
50123504	BCL 348i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFINET	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C	

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50116423	BCL 348i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116421	BCL 348i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116422	BCL 348i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116416	BCL 348i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116417	BCL 348i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116415	BCL 348i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116420	BCL 348i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116419	BCL 348i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116418	BCL 348i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

PROFIBUS DP interface

50116366	BCL 304i SN 102 D	Line scanner front	PROFIBUS DP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116365	BCL 304i SN 102 D H	Line scanner front	PROFIBUS DP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116367	BCL 304i SN 102	Line scanner front	PROFIBUS DP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116359	BCL 304i SM 102 D H	Line scanner front	PROFIBUS DP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116360	BCL 304i SM 102 D	Line scanner front	PROFIBUS DP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116361	BCL 304i SM 102	Line scanner front	PROFIBUS DP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116348	BCL 304i SF 102 D	Line scanner front	PROFIBUS DP	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116349	BCL 304i SF 102	Line scanner front	PROFIBUS DP	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116347	BCL 304i SF 102 D H	Line scanner front	PROFIBUS DP	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116353	BCL 304i SL 102 D H	Line scanner front	PROFIBUS DP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116355	BCL 304i SL 102	Line scanner front	PROFIBUS DP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116354	BCL 304i SL 102 D	Line scanner front	PROFIBUS DP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116363	BCL 304i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116364	BCL 304i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116362	BCL 304i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116357	BCL 304i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116356	BCL 304i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116358	BCL 304i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116344	BCL 304i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116346	BCL 304i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116345	BCL 304i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116352	BCL 304i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116351	BCL 304i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116350	BCL 304i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116343	BCL 304i R1 N 102	Raster scanner front	PROFIBUS DP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116342	BCL 304i R1 N 102 D	Raster scanner front	PROFIBUS DP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116338	BCL 304i R1 M 102 D	Raster scanner front	PROFIBUS DP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116339	BCL 304i R1 M 102	Raster scanner front	PROFIBUS DP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116334	BCL 304i R1 F 102 D	Raster scanner front	PROFIBUS DP	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116335	BCL 304i R1 F 102	Raster scanner front	PROFIBUS DP	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116340	BCL 304i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116341	BCL 304i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50116336	BCL 304i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116337	BCL 304i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116332	BCL 304i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116333	BCL 304i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50123506	BCL 304i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	PROFIBUS DP	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116326	BCL 304i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116327	BCL 304i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116328	BCL 304i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116320	BCL 304i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116321	BCL 304i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116322	BCL 304i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116323	BCL 304i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116325	BCL 304i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116324	BCL 304i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

Switching
SensorsMeasuring
Sensors

MultiNet Plus, RS 485 interface

50116319	BCL 301i SN 102	Line scanner front	MultiNet Plus, RS 485	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116317	BCL 301i SN 102 D H	Line scanner front	MultiNet Plus, RS 485	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116318	BCL 301i SN 102 D	Line scanner front	MultiNet Plus, RS 485	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116313	BCL 301i SM 102	Line scanner front	MultiNet Plus, RS 485	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116311	BCL 301i SM 102 D H	Line scanner front	MultiNet Plus, RS 485	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116312	BCL 301i SM 102 D	Line scanner front	MultiNet Plus, RS 485	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116301	BCL 301i SF 102	Line scanner front	MultiNet Plus, RS 485	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116300	BCL 301i SF 102 D	Line scanner front	MultiNet Plus, RS 485	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116299	BCL 301i SF 102 D H	Line scanner front	MultiNet Plus, RS 485	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116307	BCL 301i SL 102	Line scanner front	MultiNet Plus, RS 485	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116306	BCL 301i SL 102 D	Line scanner front	MultiNet Plus, RS 485	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116305	BCL 301i SL 102 D H	Line scanner front	MultiNet Plus, RS 485	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116314	BCL 301i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116315	BCL 301i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116316	BCL 301i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116308	BCL 301i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116310	BCL 301i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116309	BCL 301i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116298	BCL 301i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116296	BCL 301i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116297	BCL 301i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116303	BCL 301i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116304	BCL 301i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116302	BCL 301i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116295	BCL 301i R1 N 102	Raster scanner front	MultiNet Plus, RS 485	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116294	BCL 301i R1 N 102 D	Raster scanner front	MultiNet Plus, RS 485	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116290	BCL 301i R1 M 102 D	Raster scanner front	MultiNet Plus, RS 485	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C

Products for
Safety at Work

Identification

Data Transmission /
Control ComponentsIndustrial Image
Processing

Accessories

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50116291	BCL 301i R1 M 102	Raster scanner front	MultiNet Plus, RS 485	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116287	BCL 301i R1 F 102	Raster scanner front	MultiNet Plus, RS 485	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116286	BCL 301i R1 F 102 D	Raster scanner front	MultiNet Plus, RS 485	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116293	BCL 301i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116292	BCL 301i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116288	BCL 301i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116289	BCL 301i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116285	BCL 301i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	40 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116284	BCL 301i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50123507	BCL 301i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	MultiNet Plus, RS 485	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116278	BCL 301i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116280	BCL 301i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116279	BCL 301i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116272	BCL 301i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116274	BCL 301i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116273	BCL 301i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116277	BCL 301i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116276	BCL 301i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116275	BCL 301i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	MultiNet Plus, RS 485	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

Ethernet interface

50116412	BCL 308i SN 102 D H	Line scanner front	Ethernet	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116414	BCL 308i SN 102	Line scanner front	Ethernet	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116413	BCL 308i SN 102 D	Line scanner front	Ethernet	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116408	BCL 308i SM 102	Line scanner front	Ethernet	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116407	BCL 308i SM 102 D	Line scanner front	Ethernet	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116406	BCL 308i SM 102 D H	Line scanner front	Ethernet	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116395	BCL 308i SF 102 D H	Line scanner front	Ethernet	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50114822	BCL 308i SF 102 D	Line scanner front	Ethernet	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116396	BCL 308i SF 102	Line scanner front	Ethernet	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116400	BCL 308i SL 102 D H	Line scanner front	Ethernet	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116402	BCL 308i SL 102	Line scanner front	Ethernet	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116401	BCL 308i SL 102 D	Line scanner front	Ethernet	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116411	BCL 308i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116409	BCL 308i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	-35 ... 40 °C
50116410	BCL 308i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116403	BCL 308i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116405	BCL 308i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116404	BCL 308i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116393	BCL 308i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116392	BCL 308i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116394	BCL 308i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116398	BCL 308i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50116399	BCL 308i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116397	BCL 308i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116390	BCL 308i R1 N 102 D	Raster scanner front	Ethernet	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116391	BCL 308i R1 N 102	Raster scanner front	Ethernet	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116386	BCL 308i R1 M 102 D	Raster scanner front	Ethernet	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116387	BCL 308i R1 M 102	Raster scanner front	Ethernet	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116383	BCL 308i R1 F 102	Raster scanner front	Ethernet	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116382	BCL 308i R1 F 102 D	Raster scanner front	Ethernet	100 ... 470 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116389	BCL 308i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116388	BCL 308i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50116384	BCL 308i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116385	BCL 308i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116381	BCL 308i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116380	BCL 308i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	70 ... 440 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50123505	BCL 308i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	Ethernet	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116376	BCL 308i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116375	BCL 308i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116374	BCL 308i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116369	BCL 308i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116368	BCL 308i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50116370	BCL 308i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50116373	BCL 308i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50116372	BCL 308i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50116371	BCL 308i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

EtherNet IP interface

50120793	BCL 358i SN 102	Line scanner front	EtherNet IP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120795	BCL 358i SN 102 D H	Line scanner front	EtherNet IP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120794	BCL 358i SN 102 D	Line scanner front	EtherNet IP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120789	BCL 358i SM 102 D H	Line scanner front	EtherNet IP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120788	BCL 358i SM 102 D	Line scanner front	EtherNet IP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120787	BCL 358i SM 102	Line scanner front	EtherNet IP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120775	BCL 358i SF 102	Line scanner front	EtherNet IP	100 ... 475 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120777	BCL 358i SF 102 D H	Line scanner front	EtherNet IP	100 ... 475 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120776	BCL 358i SF 102 D	Line scanner front	EtherNet IP	100 ... 475 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120783	BCL 358i SL 102 D H	Line scanner front	EtherNet IP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120781	BCL 358i SL 102	Line scanner front	EtherNet IP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120782	BCL 358i SL 102 D	Line scanner front	EtherNet IP	100 ... 700 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120792	BCL 358i SN 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120790	BCL 358i SN 100	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120791	BCL 358i SN 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120784	BCL 358i SM 100	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120786	BCL 358i SM 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C

Necessary accessories: A modular connector hood and terminal hood are required for operation!

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50120785	BCL 358i SM 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120774	BCL 358i SF 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 445 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120772	BCL 358i SF 100	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 445 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120773	BCL 358i SF 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 445 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120780	BCL 358i SL 100 D H	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120779	BCL 358i SL 100 D	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120778	BCL 358i SL 100	Line scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 670 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120771	BCL 358i R1 N 102 D	Raster scanner front	EtherNet IP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120770	BCL 358i R1 N 102	Raster scanner front	EtherNet IP	50 ... 160 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120766	BCL 358i R1 M 102	Raster scanner front	EtherNet IP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120767	BCL 358i R1 M 102 D	Raster scanner front	EtherNet IP	60 ... 320 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120763	BCL 358i R1 F 102 D	Raster scanner front	EtherNet IP	100 ... 475 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120762	BCL 358i R1 F 102	Raster scanner front	EtherNet IP	100 ... 475 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120768	BCL 358i R1 N 100	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120769	BCL 358i R1 N 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	20 ... 130 mm	0.127 ... 0.2 mm	1,000 scans/s	0 ... 40 °C
50120764	BCL 358i R1 M 100	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120765	BCL 358i R1 M 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	30 ... 290 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120761	BCL 358i R1 F 100 D	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 445 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120760	BCL 358i R1 F 100	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	70 ... 445 mm	0.3 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50123503	BCL 358i R1 J 100	Raster scanner with deflecting mirror lateral with deflecting mirror	EtherNet IP	100 ... 600 mm	0.5 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120755	BCL 358i OM 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120756	BCL 358i OM 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50120754	BCL 358i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	40 ... 300 mm	0.2 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120748	BCL 358i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120750	BCL 358i OF 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50120749	BCL 358i OF 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 455 mm	0.3 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50120752	BCL 358i OL 100 D	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50120753	BCL 358i OL 100 D H	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50120751	BCL 358i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	EtherNet IP	80 ... 680 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C

Necessary accessories: A modular connector hood and terminal hood are required for operation!

SMARTER CUSTOMER SERVICE

Added value made attainable!

We offer specific and measurable added value in the areas of usability, application know-how and service – to help make our customers more successful. In the future, these areas will also be our yardstick for new product developments, innovative service offerings and extensive market expertise.



More information on our active customer orientation: www.leuze.com/en/ssb



/// BCL 500i



Integrated fieldbus networking is one of the key features of this series of trendsetting bar code readers. Configuration is performed via a web technology-based graphic user interface.

**Benefits:**

- Integrated fieldbus and Industrial Ethernet connectivity (PROFIBUS, PROFINET, EtherNet, EtherNet/IP and MULTINET)
- Full CRT (code reconstruction technology) also detects heavily damaged or soiled codes
- High-quality optics with great depth of field and large opening angle, also with heating for use at temperatures down to -35 °C
- Simple commissioning and connection using M12-Ultra-Lock™ connection technology and intelligent fastening concept
- Intuitive, multi-language display with menu navigation
- webConfig is a operating-system independent, browser-based configuration tool

Direct access to the online product selector at www.leuze.com/en/bcl500i

PART NUMBER CODES – stationary bar code readers BCL 500i

B C L 5 0 0 i S N 1 0 0 H

Model

BCL Bar code reader

Interface (integrated fieldbus technology)

500i RS 232 / RS 422 / RS 485 (multiNet master)
 501i RS 485 (multiNet slave)
 504i PROFIBUS DP
 508i Ethernet TCP/IP, UDP
 548i PROFINET RT
 558i EtherNet IP

Scanning principle

S Line scanner (single line)
 O Oscillating mirror scanner (oscillating mirror)

Optics

N High Density (near)
 M Medium Density (medium distance)
 F Low Density (remote)
 L Long Range (very large distance)

Beam exit

100 Lateral
 102 Front

Heating

H With heating

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
RS 485 Interface							
50105472	BCL 501i SN 102	Line scanner front	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105475	BCL 501i SN 102 H	Line scanner front	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105481	BCL 501i SM 102 H	Line scanner front	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105478	BCL 501i SM 102	Line scanner front	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105484	BCL 501i SF 102	Line scanner front	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C

Switching
SensorsMeasuring
SensorsProducts for
Safety at Work

Identification

Data Transmission /
Control ComponentsIndustrial Image
Processing

Accessories

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50105487	BCL 501i SF 102 H	Line scanner front	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109890	BCL 501i SL 102	Line scanner front	RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109893	BCL 501i SL 102 H	Line scanner front	RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105474	BCL 501i SN 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105471	BCL 501i SN 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105480	BCL 501i SM 100 H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105477	BCL 501i SM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105486	BCL 501i SF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105483	BCL 501i SF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105473	BCL 501i ON 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105476	BCL 501i ON 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105479	BCL 501i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105482	BCL 501i OM 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105488	BCL 501i OF 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105485	BCL 501i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109894	BCL 501i OL 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109891	BCL 501i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C

RS 232, RS 422, RS 485 interface

50105454	BCL 500i SN 102	Line scanner front	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105457	BCL 500i SN 102 H	Line scanner front	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105460	BCL 500i SM 102	Line scanner front	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105463	BCL 500i SM 102 H	Line scanner front	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105466	BCL 500i SF 102	Line scanner front	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105469	BCL 500i SF 102 H	Line scanner front	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109914	BCL 500i SL 102 H	Line scanner front	RS 232, RS 422, RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109911	BCL 500i SL 102	Line scanner front	RS 232, RS 422, RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105453	BCL 500i SN 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105456	BCL 500i SN 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105459	BCL 500i SM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105462	BCL 500i SM 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105465	BCL 500i SF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105468	BCL 500i SF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105455	BCL 500i ON 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105458	BCL 500i ON 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105464	BCL 500i OM 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105461	BCL 500i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105470	BCL 500i OF 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105467	BCL 500i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	500 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109912	BCL 500i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109915	BCL 500i OL 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	RS 232, RS 422, RS 485	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
PROFINET interface							
50113183	BCL 548i SN 102	Line scanner front	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50113184	BCL 548i SN 102 H	Line scanner front	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50113187	BCL 548i SM 102	Line scanner front	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50113188	BCL 548i SM 102 H	Line scanner front	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50113196	BCL 548i SF 102 H	Line scanner front	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50113195	BCL 548i SF 102	Line scanner front	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50113192	BCL 548i SL 102 H	Line scanner front	PROFINET	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50113191	BCL 548i SL 102	Line scanner front	PROFINET	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50113186	BCL 548i SN 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50113185	BCL 548i SN 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50113190	BCL 548i SM 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50113189	BCL 548i SM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50113198	BCL 548i SF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50113197	BCL 548i SF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50113200	BCL 548i ON 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50113199	BCL 548i ON 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50113201	BCL 548i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50113202	BCL 548i OM 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50113206	BCL 548i OF 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50113205	BCL 548i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50113204	BCL 548i OL 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50113203	BCL 548i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFINET	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
PROFIBUS DP interface							
50105493	BCL 504i SN 102 H	Line scanner front	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105490	BCL 504i SN 102	Line scanner front	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105496	BCL 504i SM 102	Line scanner front	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105499	BCL 504i SM 102 H	Line scanner front	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105502	BCL 504i SF 102	Line scanner front	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105505	BCL 504i SF 102 H	Line scanner front	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109899	BCL 504i SL 102 H	Line scanner front	PROFIBUS DP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109896	BCL 504i SL 102	Line scanner front	PROFIBUS DP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105489	BCL 504i SN 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105492	BCL 504i SN 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105495	BCL 504i SM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105498	BCL 504i SM 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105501	BCL 504i SF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105504	BCL 504i SF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105494	BCL 504i ON 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105491	BCL 504i ON 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105500	BCL 504i OM 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105497	BCL 504i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105506	BCL 504i OF 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C

Switching
SensorsMeasuring
SensorsProducts for
Safety at Work

Identification

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Control ComponentsIndustrial Image
Processing

Accessories

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50105503	BCL 504i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109900	BCL 504i OL 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109897	BCL 504i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	PROFIBUS DP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C

Ethernet interface

50105511	BCL 508i SN 102 H	Line scanner front	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105508	BCL 508i SN 102	Line scanner front	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105514	BCL 508i SM 102	Line scanner front	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50105517	BCL 508i SM 102 H	Line scanner front	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50105520	BCL 508i SF 102	Line scanner front	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105523	BCL 508i SF 102 H	Line scanner front	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109905	BCL 508i SL 102	Line scanner front	Ethernet	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109908	BCL 508i SL 102 H	Line scanner front	Ethernet	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105510	BCL 508i SN 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105507	BCL 508i SN 100	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105513	BCL 508i SM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50105516	BCL 508i SM 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50105519	BCL 508i SF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105522	BCL 508i SF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50105509	BCL 508i ON 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50105512	BCL 508i ON 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	-35 ... 40 °C
50105515	BCL 508i OM 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	0 ... 40 °C
50105518	BCL 508i OM 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	300 ... 1,000 mm	0.35 ... 0.8 mm	1,000 scans/s	-35 ... 40 °C
50105521	BCL 508i OF 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50105524	BCL 508i OF 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	-35 ... 40 °C
50109906	BCL 508i OL 100	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50109909	BCL 508i OL 100 H	Oscillating-mirror scanner zero position at side at angle of 90°	Ethernet	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	-35 ... 40 °C

EtherNet IP interface

50122787	BCL 558i SN 102	Line scanner front	EtherNet IP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50122788	BCL 558i SN 102 H	Line scanner front	EtherNet IP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50122785	BCL 558i SM 102	Line scanner front	EtherNet IP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122786	BCL 558i SM 102 H	Line scanner front	EtherNet IP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122781	BCL 558i SF 102	Line scanner front	EtherNet IP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122782	BCL 558i SF 102 H	Line scanner front	EtherNet IP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122783	BCL 558i SL 102	Line scanner front	EtherNet IP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122784	BCL 558i SL 102 H	Line scanner front	EtherNet IP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122776	BCL 558i ON 100	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50122780	BCL 558i ON 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	200 ... 650 mm	0.25 ... 0.5 mm	1,000 scans/s	0 ... 40 °C
50122773	BCL 558i OM 100	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122775	BCL 558i OM 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	300 ... 1,000 mm	0.35 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122769	BCL 558i OF 100	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122770	BCL 558i OF 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	400 ... 1,600 mm	0.5 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122771	BCL 558i OL 100	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C
50122772	BCL 558i OL 100 H	Line scanner with deflecting mirror zero position at side at angle of 90°	EtherNet IP	1,000 ... 2,400 mm	0.7 ... 1 mm	1,000 scans/s	0 ... 40 °C

/// BCL 90



This series stands for large depth of field and scanning width for small bar codes. They are available as frontal line scanners or as oscillating mirrors.



Benefits:

- Integrated autofocus for reliable detection
- Large depth of field for high performance reserve
- Full CRT (code reconstruction technology) also detects heavily damaged or soiled codes
- All device variants also available as oscillating mirror variants
- Devices with integrated heating available

Direct access to the online product selector at www.leuze.com/en/bcl90

Part no.	Part description	Reading method Light beam exit	Interface	Reading distance	Module size	Scanning rate	Ambient temperature, operation
50035507	BCL 90 CAT N 100	Line scanner on face	RS 232, RS 422, RS 485	400 ... 1,600 mm	0.2 ... 0.3 mm	800 scans/s	0 ... 40 °C
50035509	BCL 90 CAT N 100 H	Line scanner on face	RS 232, RS 422, RS 485	400 ... 1,600 mm	0.2 ... 0.3 mm	800 scans/s	-35 ... 35 °C
50035314	BCL 90 CAT M 100	Line scanner on face	RS 232, RS 422, RS 485	500 ... 2,100 mm	0.3 ... 0.5 mm	800 scans/s	0 ... 40 °C
50035316	BCL 90 CAT M 100 H	Line scanner on face	RS 232, RS 422, RS 485	500 ... 2,100 mm	0.3 ... 0.5 mm	800 scans/s	-35 ... 35 °C
50035512	BCL 90 CAT F 100 H	Line scanner on face	RS 232, RS 422, RS 485	500 ... 2,200 mm	0.5 mm	800 scans/s	-35 ... 35 °C
50035318	BCL 90 CAT F 100	Line scanner on face	RS 232, RS 422, RS 485	500 ... 2,200 mm	0.5 mm	800 scans/s	0 ... 40 °C
50036661	BCL 90 CAX M 100 H	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422, RS 485	500 ... 1,750 mm	0.3 ... 0.5 mm	800 scans/s	-30 ... 35 °C
50036660	BCL 90 CAX M 100	Line scanner with deflecting mirror lateral with deflecting mirror	RS 232, RS 422, RS 485	500 ... 1,750 mm	0.3 ... 0.5 mm	800 scans/s	0 ... 40 °C
50035510	BCL 90 CAT ON 100 H	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	400 ... 1,500 mm	0.2 ... 0.3 mm	800 scans/s	-35 ... 35 °C
50035508	BCL 90 CAT ON 100	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	400 ... 1,500 mm	0.2 ... 0.3 mm	800 scans/s	0 ... 40 °C
50035317	BCL 90 CAT OM 100 H	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	500 ... 2,000 mm	0.3 ... 0.5 mm	800 scans/s	-35 ... 35 °C
50035315	BCL 90 CAT OM 100	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	500 ... 2,000 mm	0.3 ... 0.5 mm	800 scans/s	0 ... 40 °C
50035513	BCL 90 CAT OF 100 H	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	500 ... 2,100 mm	0.5 mm	800 scans/s	-35 ... 35 °C
50035511	BCL 90 CAT OF 100	Oscillating-mirror scanner front	RS 232, RS 422, RS 485	500 ... 2,100 mm	0.5 mm	800 scans/s	0 ... 40 °C

SMARTER PRODUCT USABILITY

BCL 500i / BCL 300i
Powerful bar code reader with integrated fieldbus networking capability and code reconstruction technology

BPS 34
Bar code positioning system with PROFIBUS interface for complex requirements



PROFIBUS
Our products in the PROFIBUS world



CML 700i
Measuring light curtain with integrated fieldbus interfaces and evaluation unit



AMS 300i
High-precision optical laser distance sensor AMS 300i with unique selection of integrated fieldbus interfaces

Integrated interfaces complete our range of product solutions!



Discover the integrated interface diversity: www.leuze.com/en/products

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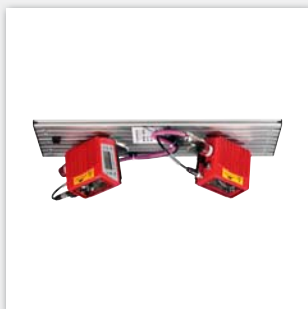
Products for
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/// MSP / MSPi systems

Reading unaligned bar code labels generally requires two or more bar code scanners that are aligned with respect to one another. The new MSP systems from Leuze electronic are modularly structured and mechanically premounted scanner portals that can read codes omnidirectionally.

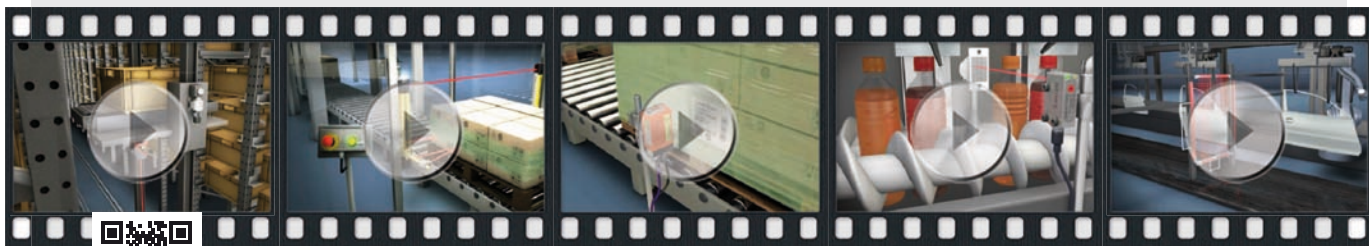
**Benefits:**

- Modular scanner portal for the integration of up to 32 bar code readers of models BCL 500i and BCL 501i for omnidirectional reading
- Object tracking capability based on the BCL 90
- Full CRT (code reconstruction technology) also detects heavily damaged or soiled codes
- webConfig is a operating-system independent, browser-based configuration tool
- Fast and simple RS232, RS422 and Ethernet interface connection to the primary host system
- High-quality optics with great depth of field and opening angle, also with heating for use at temperatures down to -35 °C
- Set parameters are stored fail-safe
- Simple commissioning and connection through M12-Ultra-Lock™ connection technology

Direct access to the online product selector at www.leuze.com/en/mspi

Part no.	Part description	Interface	Type of bar code reader
50035517	MSP 290	RS 232 RS 422	BCL 90 CAT M 100
50111412	MSP 290i - 511 F 00	RS 232 RS 422	BCL 500i S F 102 BCL 500i O F 100
50112415	MSP 290i - 511 L 00	RS 232 RS 422	BCL 500i S L 102 BCL 500i O L 100
50112416	MSP 290i - 511 M 00	RS 232 RS 422	BCL 500i S M 102 BCL 500i O M 100
50112417	MSP 290i - 511 N 00	RS 232 RS 422	BCL 500i S N 102 BCL 500i O N 100
50111413	MSP 290i - 520 F 00	RS 232 RS 422	BCL 500i S F 102
50112418	MSP 290i - 520 L 00	RS 232 RS 422	BCL 500i S L 102
50112419	MSP 290i - 520 M 00	RS 232 RS 422	BCL 500i S M 102
50112420	MSP 290i - 520 N 00	RS 232 RS 422	BCL 500i S N 102
50035518	MSP 360	RS 232 RS 422	BCL 90 CAT M 100
50121388	MSP 360i - 530 F 01	RS 232 RS 422	BCL 500i S F 102 BCL 501i S F 102
50035519	MSP 490	RS 232 RS 422	BCL 90 CAT M 100
50121387	MSP 490i - 540 M 01	RS 232 RS 422	BCL 500i S M 102 BCL 501i S M 102
50035520	MSP 560	RS 232 RS 422	BCL 90 CAT M 100

Including all mechanical components and connection cables, integrated decoder

SMARTER APPLICATION KNOW-HOW

Take a look at our product clips: www.leuze.com/en/product-clips

//MOBILE BAR CODE READERS

YOU HAVE IT IN YOUR HANDS

Mobile bar code readers can read all common bar codes at various positions in warehousing and logistics omnidirectionally. Depending on the area of application, models with wireless transmission or even combi devices, which can handle 2D-codes as well as RFID, can be chosen.

/// Z series



For bar code reading on contact, e. g., of delivery notes, labels and work orders.



Benefits:

- Touch reader (bar code reading on contact), e. g. to read bar codes on documents such as delivery notes, work orders etc.
- Extensive selection of accessories (RS 232 cable, PS2 cable, USB cable, power supply unit, table support)
- Reads all common bar codes (Code 2/5 Int., Code 39, Code 128, EAN 8/13)

Direct access to the online product selector at www.leuze.com/en/zserie

Part no.	Part description	Reading distance	Interface	Degree of protection	Connection	Ambient temperature, operation
50118358	Z-3110 incl. USB cable	0 ... 20 mm	PS/2, USB, RS 232	IP 20	USB	0 ... 50 °C

/// IT1300



Many common applications are possible with this bar code reader. Various interfaces simplify configuration and commissioning.



Benefits:

- Hand-held scanner for bar codes
- Large reading field for the detection of codes
- Robust trigger button
- Built-in decoder
- Display for completed read operations
- RS 232, USB and PS/2 interface
- Operating temp. from 0–50 °C
- Degree of protection IP 41

Direct access to the online product selector at www.leuze.com/en/it1300

Part no.	Part description	Reading distance	Interface	Drop height	Degree of protection	Connection	Ambient temperature, operation
50116864	IT 1300g-2	10 ... 460 mm	USB, RS 232	1.5 m	IP 41	RJ41	0 ... 50 °C

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/// IT38xx



With this series of hand-held scanners, select the necessary equipment, e. g., wireless transmission and battery operation, depending on the desired application.

**Benefits:**

- Industrial hand-held scanner for numerous areas of application
- Variants available with and without Bluetooth
- Robust housing for use under rough conditions.
- Device with large rotational and tilt angles for the quick detection of bar codes.
- Extensive selection of accessories (RS 232 cable, PS2 cable, USB cable, power supply unit, sometimes table support and wall mount)
- Reads all common bar codes (Code 2/5 Int., Code 39, Code 128, EAN 8/13)

Direct access to the online product selector at www.leuze.com/en/it38xx

Part no.	Part description	Reading distance	Bluetooth	Interface	Drop height	Degree of protection	Connection	Ambient temperature, operation
50106238	IT 3800 i SR030E	17 ... 2,080 mm		RS 232	2 m	IP 54	RJ41	-30 ... 50 °C
50106240	IT 3800 i SR050E	17 ... 2,080 mm		PS/2, USB, RS 232	2 m	IP 54	RJ41	-30 ... 50 °C
50106242	IT 3820 SR0C0BE	25 ... 914 mm	Class 2	PS/2, USB, RS 232	1.8 m	IP 41	Bluetooth	0 ... 50 °C
50110471	IT 3820i SRE	25 ... 914 mm	Class 2	PS/2, USB, RS 232	2 m	IP 54	Bluetooth	-10 ... 50 °C

SMARTER CUSTOMER SERVICE

**Product selector**

Intuitive web applications for convenient product selection



Our goal is to further focus our performance and offer our customers something that they can only find from the sensor people – “smart sensor business”

Ann-Kathrin Waldow,
Employee in the
Customer Care Center

The appropriate product for every application: www.leuze.com/en/products



/ 2D-CODE IDENTIFICATION

RELIABLE SOLUTIONS FOR READING CODES

Two-dimensional codes mostly consist of square-shaped groups of data cells (matrix) with a typical orientation symbol from which the code type can be recognized. Thus, 2D-identification is ideally suited for additional applications, such as parts tracking, in which codes are directly affixed to the work piece.



Stationary 2D-Code Readers

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Mobile 2D-Code Readers

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//STATIONARY 2D-CODE READERS

FOR STATIONARY USE – BUT STILL HIGHLY DYNAMIC READERS

Our code readers capture 1D- and 2D-codes without fail; depending on the type, printed to directly marked, omnidirectional, static or in fast motion, inverse or mirrored codes. Benefit from reference code comparison or the output of the code quality of printed codes. With us, you'll find the optimum solution: whether small and robust, extremely fast or fully equipped.

/// LSIS 220



The LSIS 220, with its optimized optics and resolution, offers large performance reserves for reliable code reading, even while in motion. It quickly and reliably detects bar codes, stacked codes and 2D-codes.



Benefits:

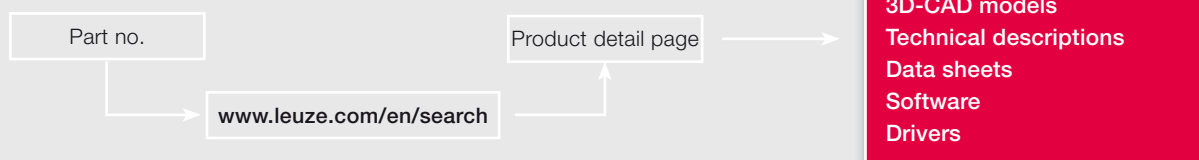
- Improved optics for larger read field and in-focus detection all the way to the border areas, optimized resolution of 844 x 640 pixels for fast code reading
- Detection of 2D-codes, stacked codes and bar codes
- RS 232 or USB interface
- Switching input (trigger)
- Trigger button for manual activation and configuration
- Construction without mechanically moved parts, robust metal housing with glass window and degree of protection IP 65 make the devices very well suited for industrial use
- Extremely small construction size, also for installation under difficult conditions

Direct access to the online product selector at www.leuze.com/en/lsis220

Part no.	Part description	Reading distance	Optics cover	Interface	Degree of protection
50117536	LSIS 222 M5M-R1	50 ... 330 mm	Glass	RS 232	IP 65
50117534	LSIS 223 M5M-R1	50 ... 330 mm	Glass	USB	IP 65

SMARTER CUSTOMER SERVICE

The quickest way to find matching accessories and technical downloads:



On the product detail pages you will find comprehensive technical downloads: www.leuze.com/en/products

/// LSIS 422i



This device combines innovative camera technology and decades of know-how from 1D-code reading. It functions omnidirectionally, with fast motion and even with low contrast.

**Benefits:**

- Optimized camera resolution of 752 × 480 pixels for fast identification, even of low-contrast codes
- CMOS code reader for 1D- and 2D-codes with high resolution
- External triggering
- Multiple code reading
- Omnidirectional reading
- Motor-driven focus adjustment
- Construction with integrated illumination for industrial use
- Display for completed read operations

Direct access to the online product selector at www.leuze.com/en/lsis422i

Part no.	Part description	Focal length	Optics cover	Light source	Interface	Degree of protection
50116978	LSIS 422i M43-I1	8 mm	Glass	LED, infrared	Ethernet, RS 232	IP 65 IP 67
50116977	LSIS 422i M43-I1-01	8 mm	Plastic	LED, infrared	Ethernet, RS 232	IP 65 IP 67
50116980	LSIS 422i M43-M1	8 mm	Glass	LED, RGB, white	Ethernet, RS 232	IP 65 IP 67
50116979	LSIS 422i M43-M1-01	8 mm	Plastic	LED, RGB, white	Ethernet, RS 232	IP 65 IP 67
50108178	LSIS 422i M43-W1	8 mm	Glass	LED, white	Ethernet, RS 232	IP 65 IP 67
50113055	LSIS 422i M43-W1-01	8 mm	Plastic	LED, white	Ethernet, RS 232	IP 65 IP 67
50116982	LSIS 422i M45-I1	16 mm	Glass	LED, infrared	Ethernet, RS 232	IP 65 IP 67
50116981	LSIS 422i M45-I1-01	16 mm	Plastic	LED, infrared	Ethernet, RS 232	IP 65 IP 67
50116984	LSIS 422i M45-M1	16 mm	Glass	LED, RGB, white	Ethernet, RS 232	IP 65 IP 67
50116983	LSIS 422i M45-M1-01	16 mm	Plastic	LED, RGB, white	Ethernet, RS 232	IP 65 IP 67
50109829	LSIS 422i M45-W1	16 mm	Glass	LED, white	Ethernet, RS 232	IP 65 IP 67
50113054	LSIS 422i M45-W1-01	16 mm	Plastic	LED, white	Ethernet, RS 232	IP 65 IP 67
50117093	LSIS 422i M49-X9		Glass		Ethernet, RS 232	IP 65 IP 67

With the LSIS 4xxi...X9, the focal length depends on the used lens
Detailed information can be found at www.leuze.com/en/lsis422i

SMARTER APPLICATION KNOW-HOW

**Trade shows**

Reliable systems for 2D- and 3D-measurement of distances and objects

**Positioning**

Sensor technology for quick positioning accurate down to the millimeter

**Safeguarding**

Economical solutions in all areas of safety at work

**Identification**

Innovative code readers and RFID systems

Additional application highlights can be found under: www.leuze.com/en/practice

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//MOBILE 2D-CODE READERS

FLEXIBLE AND PRECISE WITH ONE HAND

In addition to 2D-codes, all mobile code readers from Leuze electronic also read bar codes and can, thus, be used very flexibly. Even with low contrast and on surfaces such as metal or plastic, the high-quality reading technology functions absolutely reliably. Available as interfaces are RS 232, PS2, USB and Bluetooth.

/// IT 19xx



Weighing between 147 and 380 g, the hand-held scanners of this series are also ideally suited for continuous use.



Benefits:

- Compact reader for 1D, 2D and stacked codes
- Large reading field for high-contrast codes
- Transmission to base station via Bluetooth standard V2.1
- Several optics models available
- Stable housing with trigger button
- Built-in decoder
- RS232, USB and PS/2 interface

Direct access to the online product selector at www.leuze.com/en/it19xx

Part no.	Part description	Reading distance	Bluetooth	Interface	Drop height	Degree of protection	Connection	Ambient temperature, operation
50114504	IT 1900g ER-2	25 ... 596 mm		PS/2, USB, RS 232	1.8 m	IP 41	RJ41	0 ... 50 °C
50114507	IT 1900g HD-2	0 ... 233 mm		PS/2, USB, RS 232	1.8 m	IP 41	RJ41	0 ... 50 °C
50114509	IT 1900g SR-2	10 ... 584 mm		PS/2, USB, RS 232	1.8 m	IP 41	RJ41	0 ... 50 °C
50114511	IT 1902g ER-2	25 ... 596 mm	Class 2	PS/2, USB, RS 232	1.8 m	IP 41	Bluetooth	0 ... 50 °C
50114513	IT 1902g HD-2	0 ... 233 mm	Class 2	PS/2, USB, RS 232	1.8 m	IP 41	Bluetooth	0 ... 50 °C
50114515	IT 1902g SR-2	10 ... 584 mm	Class 2	PS/2, USB, RS 232	1.8 m	IP 41	Bluetooth	0 ... 50 °C
50122436	IT 1910i ER-3	25 ... 596 mm		PS/2, USB, RS 232	2 m	IP 65	RJ41	-30 ... 50 °C
50122434	IT 1911i ER-3	25 ... 596 mm	Class 1	PS/2, USB, RS 232	2 m	IP 65	Bluetooth	-20 ... 50 °C

/// FIS 6170



Industrial hand-held scanner for reading directly-marked codes (dot-peened or laser-etched) with low contrast, even in the event of glossy and rounded surfaces, with omnidirectional code recognition.



Benefits:

- Hand-held scanners for directly marked codes
- Ergonomic housing
- Robust trigger button
- Built-in decoder
- Display for completed read operations with LED, signal tone and vibration
- RS 232 or USB interface
- Incl. USB cable
- Operating temperature from 0 through 50 °C

Direct access to the online product selector at www.leuze.com/en/fis6170

Part no.	Part description	Reading distance	Interface	Drop height	Degree of protection	Connection	Ambient temperature, operation
50115068	FIS 6170	0 ... 51 mm	USB, RS 232	1.8 m	IP 41	Connector	0 ... 50 °C

/// HS 65x8

Industrial hand-held scanner for reading directly-marked codes (dot-peened or laser-etched) with low contrast as well as large bar codes with omnidirectional code recognition.

**Benefits:**

- Hand-held scanners for directly marked codes
- Ergonomic housing
- Robust trigger button
- Built-in decoder
- Display for completed read operations with LED, signal tone and vibration
- RS 232, PS2 or USB interface
- With the HS 6578, data transmission via Bluetooth Standard V2.1
- Operating temperature from -20 through 50 °C

Direct access to the online product selector at www.leuze.com/en/hs65x8

Part no.	Part description	Reading distance	Bluetooth	Interface	Drop height	Degree of protection	Connection	Ambient temperature, operation
50120442	HS 6508 DPM	0 ... 233 mm		PS/2, USB, RS 232	2 m	IP 65	RJ41	-20 ... 50 °C
50120440	HS 6578 DPM	0 ... 233 mm	Class 2	PS/2, USB, RS 232	2 m	IP 65	Bluetooth	-20 ... 50 °C

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SMARTER APPLICATION KNOW-HOW

You need application know-how – we have the required expertise in your sector of industry!



Conveyor and storage systems



Automotive industry



Packaging industry



Robotics/handling



Machine tools



Laboratory analysis

Data Transmission /
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More on our industry-specific knowledge: www.leuze.com/en/industry

/ RF IDENTIFICATION

EVERYTHING CLEAR EVEN WITH POOR VISIBILITY

With RFID, no direct “visual contact” between the read-write unit and transponder is necessary. Information from the transponder is received by means of electromagnetic waves. As a result, these systems can be used practically and reliably under even the most adverse conditions.



Stationary RFID read/write systems

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Mobile RFID read/write systems

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Transponders

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//STATIONARY RFID READ/WRITE SYSTEMS

NEARLY INVISIBLE INTEGRATION

With stationary systems, proximity to the reader suffices for the detection of objects. As a result, readers can be integrated at nearly any location in the system. Our RFID solutions offer various operating ranges and simplify integration in existing systems through maximum connectivity.

/// RFI 32



This stationary reader for fixcode transponders can be used for universal reading tasks, even at high ambient temperatures.



Benefits:

- Max. reading speed up to 0.6 m/s
- Reliable detection in adverse environments to 200 °C
- Max. reading distance up to 80 mm
- Highly visible status LEDs, PCB connectors
- Industrial transponder selection
- RS 232 with trigger input and switching output

Direct access to the online product selector at www.leuze.com/en/rfi32

Part no.	Part description	Design	Reading distance	Working frequency	Interface	Connection	Degree of protection
50040500	RFI 32 L 120	Cubic	80 mm	0.125 MHz	RS 232	Cable with socket connector, 1,000 mm	IP 65
50108915	RFI 32 L 120-L10	Cubic	80 mm	0.125 MHz	RS 232	Cable with socket connector, 10,000 mm	IP 65

/// RFM 12 / 32 / 62



For ISO15693 transponders, Leuze electronic offers three read/write devices that offer the right range for typical applications. One of the devices is also available in Ex-design.



Benefits:

- Max. reading speed of 2.0–6.0 m/s
- Max. reading distance 50–500 mm
- Reliable detection with database updating in adverse environments to 220 °C
- Highly visible status LEDs, PCB connectors
- Large selection of industrial transponders with up to 1024 bytes
- RS 232 with trigger input and switching output
- Configuration via Leuze RF Config

Direct access to the online product selector at www.leuze.com/en/rfm12_32_62

Part no.	Part description	Design	Reading/writing distance	Working frequency	Interface	Ex device group	Connection	Degree of protection
50040497	RFM 12 SL 200	Cylindrical, M30	45 mm	13.56 MHz	RS 232		Cable with socket connector, 1,000 mm	IP 67
50040498	RFM 32 SL 200	Cubic	110 mm	13.56 MHz	RS 232		Cable with socket connector, 1,000 mm	IP 67
50103087	RFM 32 SL 200 Ex-n	Cubic	110 mm	13.56 MHz	RS 232	II	Cable with socket connector, 10,000 mm	IP 67
50040499	RFM 62 SL 200	Cubic	400 mm	13.56 MHz	RS 232		Cable with socket connector, 1,000 mm	IP 65

//MOBILE RFID READ/WRITE SYSTEMS

FUNCTIONS IN MANY AREAS

RFID is also ideally suited for mobile use. One favorite area of application is, for example, in freight traffic at logistics hubs. But mobile devices are often advantageous in warehousing as well and guarantee smooth and fast identification. Moreover, our RFID solutions also read bar codes and 2D-codes.

/// HFM 35xxD



Mobile combi device for RFID transponders (RF 13.56 MHz) and bar codes, specially designed for reading bar code information and then writing this information on a transponder.



Benefits:

- Mobile read/write device with pistol handle for short operating ranges combined with bar codes
- With a stable trigger button, it is suitable for industrial use
- RS 232 interface or USB COM port emulation, Bluetooth optional
- Selectable display and data output (hex/ASCII)
- Function selection by means of keyboard or PLC and simple feedback on the display

Direct access to the online product selector at www.leuze.com/en/hfm35xxd

Part no.	Part description	RFID reading/writing distance	Bar code reading distance	Working frequency	Interface	Connection	Degree of protection
50110552	HFM 3500 D	25 mm	450 mm	13.56 MHz	RS 232	Sub-D	IP 54
50110551	HFM 3520 D	25 mm	450 mm	13.56 MHz	USB, RS 232	Bluetooth	IP 54

SMARTER APPLICATION KNOW-HOW

We are constantly working on challenges and important issues in our target markets.



Safety at work



Ex-protection



IO-Link



Laser class 1



ID technologies



Connectivity



Find out more in our user knowledge and topic center: www.leuze.com/en/topics

//TRANSPONDERS

FROM FLAT TO ROBUST, EVERYTHING IS POSSIBLE

The areas of application for RFID are as broad as the requirements placed on transponders. Leuze electronic offers an extensive and high-quality product segment for all conceivable applications. It includes transponders for fault-free use on metal, high-temperature transponders, self-adhesive SmartLabels or chip cards.

/// TFI



This transponder with EM4002 chip is suitable for readers of the RFI series.



Benefits:

- Fixcode transponder with EM4002 chip (8 bytes), suitable for write/read units of the RFI series.
- Industry transponder for temperatures up to 200 °C available as disk

Direct access to the online product selector at www.leuze.com/en/tfi

Part no.	Part description	Design	Dimensions	Working frequency	Memory size	Degree of protection	Ambient temperature, operation
50032396	TFI 03 1101.120	Write	30 mm × 2.1 mm	0.125 MHz	8 B	IP 65	-20 ... 70 °C
50039070	TFI 03 1601.120	Write	30 mm × 2.5 mm	0.125 MHz	8 B	IP 67	-20 ... 85 °C
50032395	TFI 05 1101.120	Write	50 mm × 2.1 mm	0.125 MHz	8 B	IP 65	-20 ... 70 °C
50039069	TFI 05 1601.120	Write	50 mm × 2.5 mm	0.125 MHz	8 B	IP 67	-20 ... 85 °C

Dimensional tolerances for all specified dimensions: ± 0.5 mm

/// TFM



The HF transponder with various memory sizes is suitable for the RFM / HFM readers as a self-adhesive/disc/card or high-temperature transponder, with Ex certification if necessary.



Benefits:

- ISO15693 transponder with 112 to 1024 bytes (I-CodeSLI/HFI or MyD) suitable for write/read units of the RFM.../HFM... series
- Industry transponder for temperatures up to 220 °C, available as disk, stickers and cards
- Special transponders on request

Direct access to the online product selector at www.leuze.com/en/tfm

Part no.	Part description	Design	Dimensions	Working frequency	Memory size	Degree of protection	Ex device group	Ambient temperature, operation
50102915	TFM 02 1125.220	Write	22 mm × 3 mm	13.56 MHz	256 B	IP 68		-25 ... 85 °C
50107790	TFM 02 2210.210	Label	18 mm × 0.3 mm × 36 mm	13.56 MHz	112 B	IP 54		-20 ... 50 °C
50102917	TFM 03 1110.210	Write	30 mm × 2.5 mm	13.56 MHz	112 B	IP 66		-20 ... 70 °C
50106412	TFM 03 1510.210	Write	30 mm × 2.5 mm	13.56 MHz	112 B	IP 68		-25 ... 85 °C
50102956	TFM 03 5125.220	Card	28 mm × 1 mm × 50 mm	13.56 MHz	256 B	IP 54		-20 ... 70 °C
50108290	TFM 04 1190.230	Write	40 mm × 2.5 mm	13.56 MHz	1,024 B	IP 66		-20 ... 70 °C
50102916	TFM 05 1110.210	Write	50 mm × 2.5 mm	13.56 MHz	112 B	IP 66		-20 ... 85 °C
50108070	TFM 05 1110.Ex	Write	54 mm × 15 mm	13.56 MHz	112 B	IP 67	II	-25 ... 60 °C
50106413	TFM 05 1510.210	Write	50 mm × 2.5 mm	13.56 MHz	112 B	IP 68		-25 ... 85 °C
50109232	TFM 05 2210.210	Label	50 mm × 0.3 mm × 50 mm	13.56 MHz	112 B	IP 54		-20 ... 50 °C
50117412	TFM 08 1110.210	Write	85 mm × 3 mm	13.56 MHz	112 B	IP 67 IP 65		-20 ... 70 °C
50114962	TFM 08 1610.210	Write	85 mm × 13.5 mm	13.56 MHz	112 B	IP 68		-25 ... 100 °C
50109233	TFM 08 2125.220	Card	54 mm × 1 mm × 86 mm	13.56 MHz	256 B	IP 68		-20 ... 70 °C

Dimensional tolerances for all specified dimensions: ± 0.5 mm

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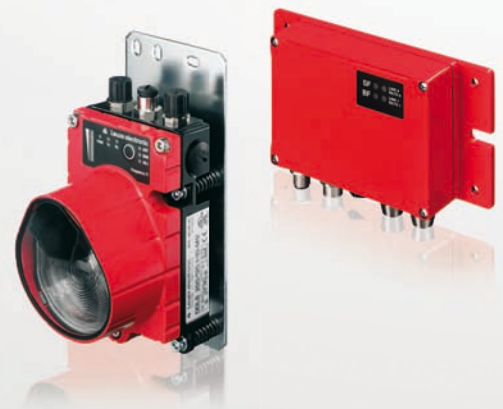
DATA TRANSMISSION / CONTROL COMPONENTS

ACCESS DATA QUICKLY AND SIMPLY

In addition to the actual device technology, the transfer of data and the connection of devices in a wide range of fieldbus environments are also given high priority and decisively influence the user friendliness and flexibility of your system. Discover innovative connection concepts and universal configuration solutions that also reveal unexpected efficiency potentials.

"What good are the best sensors if the generated signals do not reliably reach the control. With our product developments, we therefore always consider the entire process. Everything in order to make our customers' business a little bit easier every day."

Martin Tippmann,
Product Manager – Optical Data Transmission



/ Modular Interfacing Units

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/ MODULAR INTERFACING UNITS

PUTTING IT ALL TOGETHER

All peripheral devices – such as sensors, protective switches and cameras – are not worth much without networking to the fieldbus or a control unit. Depending on device type and area of application, our modular interfacing units offer variable interfaces that enable simple connection of the identification devices directly to the fieldbus and thus ensure simple integration of new devices in the system.



/// MA 100



Terminal box for BCL 300i/301i with KB301.



Benefits:

- External terminal box for BCL 300/301i with cable hood and address switch

Direct access to the online product selector at www.leuze.com/en/ma100

Part no.	Part description	Suitable for	Interface
50114369	MA 100	BCL 300i	RS 232, RS 485

/// MA 2



Connector unit with separate RS 232 service interface for BCL 21/22, BCL 31/32, RFID systems RFI and RFM.



Benefits:

- Robust terminal box for connection of the devices with JST (RS 232 or RS 485)
- Rotary switch for addressing
- Double terminals enable wiring through (PWR, RS 485)
- With PG screw fittings on mounting plate
- Degree of protection IP 65

Direct access to the online product selector at www.leuze.com/en/ma2

Part no.	Part description	Suitable for	Interface
50031256	MA 2	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 485

/// MA 21



The MA 21 modular connector unit is used to connect Leuze electronic identification systems (IDS) to an RS 232 interface.



Benefits:

- Universal interface and protocol converter for RS 232/RS 485 devices with clamp connection
- With separate service interface, 9 pin SubD
- PG screw fittings on mounting plate
- Degree of protection IP 65

Direct access to the online product selector at www.leuze.com/en/ma21

Part no.	Part description	Suitable for	Interface	Supply voltage
50030481	MA 21 100	BCL 8 series bar code readers BCL 2x series bar code readers HFxx series mobile RFID read/write systems IT 1900 series mobile 2D-code readers	RS 232, RS 485	18 ... 36 V, DC

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Part no.	Part description	Suitable for	Interface	Supply voltage
50103125	MA 21 100.2	BCL 2x series bar code readers BCL 8 series bar code readers RFM 12 / 32 / 62 HFxx series mobile RFID read/write systems RFI 32 LSIS 2xx series stationary 2D-code readers	RS 232, RS 485	18 ... 36 V, DC
50030482	MA 21 110	BCL 2x series bar code readers BCL 8 series bar code readers IT 1900 series mobile 2D-code readers HFxx series mobile RFID read/write systems	RS 232	18 ... 36 V, DC
50030483	MA 21 120	BCL 2x series bar code readers BCL 8 series bar code readers IT 1900 series mobile 2D-code readers HFxx series mobile RFID read/write systems	TTY, RS 232	18 ... 36 V, DC
50030484	MA 21 130	BCL 2x series bar code readers BCL 8 series bar code readers IT 1900 series mobile 2D-code readers HFxx series mobile RFID read/write systems	RS 232, RS 422	18 ... 36 V, DC

/// MA 22

Connector unit for daisy chain connections.

**Benefits:**

- Connector unit for up to 4 BCL 22 devices in Daisy Chain
- Separate service interface for installation in cabinet
- Suitable for DIN rail mounting

Direct access to the online product selector at www.leuze.com/en/ma22

Part no.	Part description	Suitable for	Interface	Supply voltage
50031496	MA 22 DC	BCL 2x series bar code readers	RS 232	18 ... 30 V, DC

/// MA 31

Network master for Leuze electronic multiNet plus.

**Benefits:**

- Connection with M12 technology
- Integrated, fail-safe parameter memory facilitates device exchange without reconfiguration
- Networking of multiple BCL 31 and BCL 301i devices via RS 485 in multiNet plus
- Address setting using rotary and slide switches
- Separate connection for switching inputs and switching outputs
- Degree of protection IP 65

Direct access to the online product selector at www.leuze.com/en/ma31

Part no.	Part description	Interface	Supply voltage
50030835	MA 31 100	RS 485	18 ... 36 V, DC
50030836	MA 31 110	RS 232, RS 485	18 ... 36 V, DC
50030837	MA 31 120	TTY, RS 485	18 ... 36 V, DC
50030838	MA 31 130	RS 422, RS 485	18 ... 36 V, DC

/// MA 200i



Fieldbus gateways for field use for connecting bar code readers and identification systems.



Benefits:

- Fieldbus gateway for RS 232 devices with pre-configuration for Leuze electronic Ident devices and sensors
- With service interface, 9 pin SubD
- M12 screw fittings on mounting plate
- Degree of protection IP 65

Direct access to the online product selector at www.leuze.com/en/ma200i

Part no.	Part description	Suitable for	Interface	Supply voltage
50112893	MA 204i Profibus gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system HFxx series mobile RFID read/write systems LSIS 1xx series stationary 2D-code readers RFM 12 / 32 / 62 RFI 32	PROFIBUS DP, RS 232	18 ... 30 V, DC
50112892	MA 208i Ethernet gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system HFxx series mobile RFID read/write systems LSIS 1xx series stationary 2D-code readers RFM 12 / 32 / 62 RFI 32	Ethernet, RS 232	18 ... 30 V, DC
50114154	MA 235i CANopen gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system HFxx series mobile RFID read/write systems RFI 32 RFM 12 / 32 / 62 LSIS 1xx series stationary 2D-code readers	CANopen, RS 232	18 ... 30 V, DC
50114155	MA 238i EtherCAT gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system HFxx series mobile RFID read/write systems LSIS 1xx series stationary 2D-code readers RFI 32 RFM 12 / 32 / 62	EtherCAT, RS 232	18 ... 30 V, DC
50112891	MA 248i PROFINET gateway	BCL 2x series bar code readers BCL 8 series bar code readers HFxx series mobile RFID read/write systems LSIS 1xx series stationary 2D-code readers BPS 8 series bar code positioning system RFM 12 / 32 / 62 RFI 32	PROFINET, RS 232	18 ... 30 V, DC
50114156	MA 255i DeviceNet gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system IT 4800 series mobile 2D-code readers HFxx series mobile RFID read/write systems RFM 12 / 32 / 62 RFI 32 LSIS 1xx series stationary 2D-code readers Optical distance sensors (ODS/L with RS232)	RS 232, DeviceNet	18 ... 30 V, DC
50114157	MA 258i EtherNet/IP gateway	BCL 2x series bar code readers BCL 8 series bar code readers BPS 8 series bar code positioning system HFxx series mobile RFID read/write systems LSIS 1xx series stationary 2D-code readers RFM 12 / 32 / 62 RFI 32	EtherNet IP, RS 232	18 ... 30 V, DC

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/// MA 8

Connector unit for simple connection of the BCL 8 or BPS 8.

**Benefits:**

- Connector unit for BCL 8/BPS 8 with RS 232 or RS 485
- M12 connection
- Degree of protection IP 65

Direct access to the online product selector at www.leuze.com/en/ma8

Part no.	Part description	Suitable for	Interface	Supply voltage
50104790	MA 8-01	BCL 8 series bar code readers BPS 8 series bar code positioning system	RS 485	10 ... 30 V, DC
50101699	MA 8.1	BCL 8 series bar code readers	RS 232	10 ... 30 V, DC

/// MA 90

Point-to-point multiNet slave for the BCL 90 product family for easy wiring and configuration.

**Benefits:**

- Easy wiring and configuration
- RS 232 service interface
- Voltage supply terminals dual-installed for wiring through
- Interface RS 485 for the Leuze multiNet plus dual-installed for wiring through
- Hardware addressing in Leuze multiNet plus, 6 switching inputs and 4 switching outputs
- 4 LEDs for visualization at the device
- Hardware reset
- Large wiring terminal compartment

Direct access to the online product selector at www.leuze.com/en/ma90

Part no.	Part description	Suitable for	Supply voltage
50035348	MA 90	BCL 90 series bar code readers	18 ... 30 V, DC

SMARTER PRODUCT USABILITY

Optimum handling, very simple mounting and alignment, uncomplicated integration in fieldbus systems and fast configuration.

Discover our product innovations!



Direct access to our product innovations: www.leuze.com/en/innovations

/// MA 4

Connector unit with clamp connections for BCL 21/22 and BCL 32 with parameter memory.

**Benefits:**

- Parameters of the BCL 21/22 are saved in a fail-safe manner on an EEPROM
- Rotary switch for setting the address for networking via Leuze multiNet plus
- Additional RS 232 service interface (9-pin Sub-D plug)
- Integrated two-line display with 16 characters each (MA 4D only)
- PG screw fittings on mounting plate
- Terminals for connecting the switching inputs/outputs, the voltage supply and the communication interface

Direct access to the online product selector at www.leuze.com/en/ma4

Part no.	Part description	Suitable for	Interface	Supply voltage
50031537	MA 4	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 485	10 ... 30 V, DC
50102024	MA 4 100	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 485	10 ... 30 V, DC
50039659	MA 4 110	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232	10 ... 30 V, DC
50039660	MA 4 120	BCL 2x series bar code readers BCL 3x series bar code readers	TTY, RS 232	10 ... 30 V, DC
50039661	MA 4 130	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 422	10 ... 30 V, DC
50031536	MA 4 D	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 485	10 ... 30 V, DC
50102023	MA 4 D 100	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 485	10 ... 30 V, DC
50039662	MA 4 D 110	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232	10 ... 30 V, DC
50039663	MA 4 D 120	BCL 2x series bar code readers BCL 3x series bar code readers	TTY, RS 232	10 ... 30 V, DC
50039664	MA 4 D 130	BCL 2x series bar code readers BCL 3x series bar code readers	RS 232, RS 422	10 ... 30 V, DC

/// MA 4.7

Connector unit with clamp connections for BPS 37.

**Benefits:**

- Parameters of the BPS 37 are saved in a fail-safe manner on an EEPROM
- Rotary switch for adjusting the resolution / speed and jumper for Gray/binary selection
- Additional RS 232 service interface (9-pin sub-D connector)
- PG screw fittings on mounting plate
- Integrated two-line display with 16 characters each (MA 4D.7 only)
- Terminals for connecting the switching input/output, the voltage supply and the communication interface

Direct access to the online product selector at www.leuze.com/en/ma4_7

Part no.	Part description	Suitable for	Supply voltage
50037325	MA 4 D.7	BPS 3x series bar code positioning system	10 ... 30 V, DC
50037324	MA 4.7	BPS 3x series bar code positioning system	10 ... 30 V, DC

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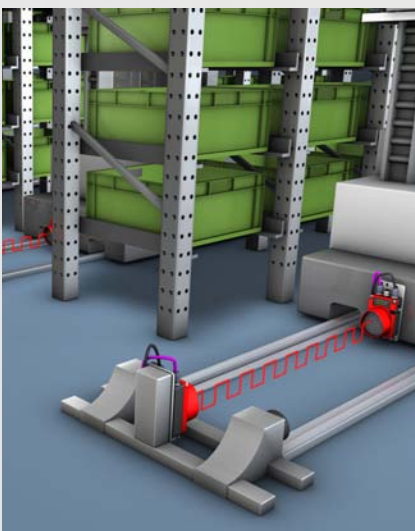
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/ DATA TRANSMISSION

CONTACT-FREE TRANSMISSION OF INFORMATION BY MEANS OF INFRARED LIGHT

Whenever data needs to be communicated without contact, optical devices for data transmission are the right choice. The optical data transceivers are used primarily in plant engineering, especially in applications where industrial networks such as PROFIBUS, DeviceNet or Ethernet etc. are connected to system components which are moved.



/// DDLS 200



Infrared data transmission protects this series from interference. Systems are available for all common industrial interfaces including, among others, Ethernet TCP/IP and Interbus. The ranges are stepped and reach a maximum transmission distance of 500 m.

**Benefits:**

- Ranges up to 500 m possible
- Transmission rates up to 2 Mbit/s
- Network interfaces with integrated repeater function
- Low ambient light sensitivity through special FSK method
- Interfaces: PROFIBUS, PROFINET, Ethernet TCP/IP and Interbus

Direct access to the online product selector at www.leuze.com/en/ddls200

Part no.	Part description	Operating range	Interface	Opening angle	Functions	Transmission speed	Connection 1 Connection 2	Degree of protection	Temperature
Ethernet interface									
50117396	► DDLS 200/30.1-60-W	200 ... 30,000 mm	Ethernet	3°	Wide angle version	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50117397	◄ DDLS 200/30.2-60-W	200 ... 30,000 mm	Ethernet	3°	Wide angle version	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50112207	► DDLS 200/80.1-60-W	200 ... 80,000 mm	Ethernet	2°	Wide angle version	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50112208	◄ DDLS 200/80.2-60-W	200 ... 80,000 mm	Ethernet	2°	Wide angle version	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50106035	► DDLS 200/120.1-60-M12	200 ... 120,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106036	◄ DDLS 200/120.2-60-M12	200 ... 120,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106041	► DDLS 200/120.1-60-H-M12	200 ... 120,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106042	◄ DDLS 200/120.2-60-H-M12	200 ... 120,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50040929	► DDLS 200/120.1-60	200 ... 120,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50040930	◄ DDLS 200/120.2-60	200 ... 120,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50040931	► DDLS 200/120.1-60-H	200 ... 120,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
50040932	◄ DDLS 200/120.2-60-H	200 ... 120,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
50040933	► DDLS 200/200.1-60	200 ... 200,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50040934	◄ DDLS 200/200.2-60	200 ... 200,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50040935	► DDLS 200/200.1-60-H	200 ... 200,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
50040936	◄ DDLS 200/200.2-60-H	200 ... 200,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
50106037	► DDLS 200/200.1-60-M12	200 ... 200,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106038	◄ DDLS 200/200.2-60-M12	200 ... 200,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106043	► DDLS 200/200.1-60-H-M12	200 ... 200,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106044	◄ DDLS 200/200.2-60-H-M12	200 ... 200,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50040937	► DDLS 200/300.1-60	200 ... 300,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50040938	◄ DDLS 200/300.2-60	200 ... 300,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-5 ... 50 °C
50106045	► DDLS 200/300.1-60-H-M12	200 ... 300,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106046	◄ DDLS 200/300.2-60-H-M12	200 ... 300,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106039	► DDLS 200/300.1-60-M12	200 ... 300,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106040	◄ DDLS 200/300.2-60-M12	200 ... 300,000 mm	Ethernet	1°		100 Mbit/s Tx; 2 Mbit/s Fx	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50040939	► DDLS 200/300.1-60-H	200 ... 300,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
50040940	◄ DDLS 200/300.2-60-H	200 ... 300,000 mm	Ethernet	1°	Heating	100 Mbit/s Tx; 2 Mbit/s Fx	Terminal, M16 RJ45, M25	IP 65	-30 ... 50 °C
CANopen, DeviceNet interface									
50122268	► DDLS 200/80.2-50-W-M12	200 ... 80,000 mm	CANopen, DeviceNet	2°	Wide angle version	10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50122267	◄ DDLS 200/80.1-50-W-M12	200 ... 80,000 mm	CANopen, DeviceNet	2°	Wide angle version	10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C

► transmitter / ◄ receiver

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50039937	► DDLS 200/120.1-50	200 ... 120,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039938	◄ DDLS 200/120.2-50	200 ... 120,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50113046	► DDLS 200/120.1-50-M12	200 ... 120,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50113045	◄ DDLS 200/120.2-50-M12	200 ... 120,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50039943	► DDLS 200/120.1-50-H	200 ... 120,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50039944	◄ DDLS 200/120.2-50-H	200 ... 120,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50125767	► DDLS 200/200.1-50-M12	200 ... 200,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50125768	◄ DDLS 200/200.2-50-M12	200 ... 200,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50039939	► DDLS 200/200.1-50	200 ... 200,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039940	◄ DDLS 200/200.2-50	200 ... 200,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039945	► DDLS 200/200.1-50-H	200 ... 200,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50039946	◄ DDLS 200/200.2-50-H	200 ... 200,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50039941	► DDLS 200/300.1-50	200 ... 300,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039942	◄ DDLS 200/300.2-50	200 ... 300,000 mm	CANopen, DeviceNet	1 °		10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039947	► DDLS 200/300.1-50-H	200 ... 300,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50039948	◄ DDLS 200/300.2-50-H	200 ... 300,000 mm	CANopen, DeviceNet	1 °	Heating	10 ... 1,000 / 125 ... 500 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C

PROFIBUS DP, RS 485 interface

50039704	► DDLS 200/30.1-10-W	200 ... 30,000 mm	PROFIBUS DP, RS 485	3 °	Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50039705	◄ DDLS 200/30.2-10-W	200 ... 30,000 mm	PROFIBUS DP, RS 485	3 °	Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50102312	► DDLS 200/80.1-10-W	200 ... 80,000 mm	PROFIBUS DP, RS 485	2 °	Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50102313	◄ DDLS 200/80.2-10-W	200 ... 80,000 mm	PROFIBUS DP, RS 485	2 °	Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50102494	► DDLS 200/80.1-10-W-H	200 ... 80,000 mm	PROFIBUS DP, RS 485	2 °	Heating Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50102495	◄ DDLS 200/80.2-10-W-H	200 ... 80,000 mm	PROFIBUS DP, RS 485	2 °	Heating Wide angle version	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036282	► DDLS 200/120.1-10	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036283	◄ DDLS 200/120.2-10	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50106023	► DDLS 200/120.1-10-M12	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106024	◄ DDLS 200/120.2-10-M12	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50036286	► DDLS 200/120.1-10-H	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036287	◄ DDLS 200/120.2-10-H	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50106029	► DDLS 200/120.1-10-H-M12	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106030	◄ DDLS 200/120.2-10-H-M12	200 ... 120,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50036280	► DDLS 200/200.1-10	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036281	◄ DDLS 200/200.2-10	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50106025	► DDLS 200/200.1-10-M12	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106026	◄ DDLS 200/200.2-10-M12	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106031	► DDLS 200/200.1-10-H-M12	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106032	◄ DDLS 200/200.2-10-H-M12	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50036284	► DDLS 200/200.1-10-H	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036285	◄ DDLS 200/200.2-10-H	200 ... 200,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038284	► DDLS 200/300.1-10	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038285	◄ DDLS 200/300.2-10	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50106027	► DDLS 200/300.1-10-M12	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C
50106028	◄ DDLS 200/300.2-10-M12	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-5 ... 50 °C

► transmitter / ◄ receiver

Part no.	Part description	Operating range	Interface	Opening angle	Functions	Transmission speed	Connection 1 Connection 2	Degree of protection	Temperature
50106033	► DDLS 200/300.1-10-H-M12	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50106034	◄ DDLS 200/300.2-10-H-M12	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Connector, M12 Connector, M12	IP 65	-30 ... 50 °C
50038286	► DDLS 200/300.1-10-H	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038287	◄ DDLS 200/300.2-10-H	200 ... 300,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 1.5 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50040131	► DDLS 200/500.1-10	200 ... 500,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 0.09375 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50040132	◄ DDLS 200/500.2-10	200 ... 500,000 mm	PROFIBUS DP, RS 485	1 °		0.0096 ... 0.09375 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50040133	► DDLS 200/500.1-10-H	200 ... 500,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 0.09375 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50040134	◄ DDLS 200/500.2-10-H	200 ... 500,000 mm	PROFIBUS DP, RS 485	1 °	Heating	0.0096 ... 0.09375 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C

RS 422, Interbus-S interface

50041339	► DDLS 200/30.1-20-W	200 ... 30,000 mm	RS 422, Interbus-S	3 °	Wide angle version	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50041338	◄ DDLS 200/30.2-20-W	200 ... 30,000 mm	RS 422, Interbus-S	3 °	Wide angle version	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50106252	► DDLS 200/80.1-20-W	200 ... 80,000 mm	RS 422, Interbus-S	2 °	Wide angle version	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50106253	◄ DDLS 200/80.2-20-W	200 ... 80,000 mm	RS 422, Interbus-S	2 °	Wide angle version	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036290	► DDLS 200/120.1-20	200 ... 120,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036291	◄ DDLS 200/120.2-20	200 ... 120,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036294	► DDLS 200/120.1-20-H	200 ... 120,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036295	◄ DDLS 200/120.2-20-H	200 ... 120,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036288	► DDLS 200/200.1-20	200 ... 200,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036289	◄ DDLS 200/200.2-20	200 ... 200,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036292	► DDLS 200/200.1-20-H	200 ... 200,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036293	◄ DDLS 200/200.2-20-H	200 ... 200,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038288	► DDLS 200/300.1-20	200 ... 300,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038289	◄ DDLS 200/300.2-20	200 ... 300,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038290	► DDLS 200/300.1-20-H	200 ... 300,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038291	◄ DDLS 200/300.2-20-H	200 ... 300,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50040135	► DDLS 200/500.1-20	200 ... 500,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50040136	◄ DDLS 200/500.2-20	200 ... 500,000 mm	RS 422, Interbus-S	1 °		2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50040137	► DDLS 200/500.1-20-H	200 ... 500,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50040138	◄ DDLS 200/500.2-20-H	200 ... 500,000 mm	RS 422, Interbus-S	1 °	Heating	2 Mbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C

Rockwell DH+/RIO interface

50038300	► DDLS 200/120.1-40	200 ... 120,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038301	◄ DDLS 200/120.2-40	200 ... 120,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038302	► DDLS 200/120.1-40-H	200 ... 120,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038303	◄ DDLS 200/120.2-40-H	200 ... 120,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036300	► DDLS 200/200.1-40	200 ... 200,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036301	◄ DDLS 200/200.2-40	200 ... 200,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50036302	► DDLS 200/200.1-40-H	200 ... 200,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50036303	◄ DDLS 200/200.2-40-H	200 ... 200,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038296	► DDLS 200/300.1-40	200 ... 300,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038297	◄ DDLS 200/300.2-40	200 ... 300,000 mm	Rockwell DH+/RIO	1 °		57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-5 ... 50 °C
50038298	► DDLS 200/300.1-40-H	200 ... 300,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C
50038299	◄ DDLS 200/300.2-40-H	200 ... 300,000 mm	Rockwell DH+/RIO	1 °	Heating	57.6 ... 230.4 kbit/s	Terminal, M16 Terminal, M16	IP 65	-30 ... 50 °C

► transmitter / ◄ receiver

Switching
SensorsMeasuring
SensorsProducts for
Safety at Work

Identification

Data Transmission/
Control ComponentsIndustrial Image
Processing

Accessories