

Technical data sheet Stationary bar code reader

Part no.: 50120776

BCL 358i SF 102 D



Contents

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











Technical data



| Series | BCL 300i |
|--|---|
| Functions | |
| Functions | Alignment mode |
| | AutoConfig |
| | AutoControl |
| | AutoReflAct |
| | Code fragment technology |
| | LED indicator |
| | Reference code comparison |
| Characteristic parameters | |
| MTTF | 110 years |
| Read data | |
| Code types, readable | 2/5 Interleaved |
| | Codabar |
| | Code 128 |
| | Code 39 |
| | Code 93 |
| | EAN 8/13 |
| | GS1 Databar Expanded |
| | GS1 Databar Limited |
| | GS1 Databar Limited GS1 Databar Omnidirectional |
| | UPC |
| | UEU |
| Coonning rate tunical | |
| Bar codes per reading gate, max. | 1,000 scans/s 64 Piece(s) |
| Bar codes per reading gate, max. number Optical data | 1,000 scans/s 64 Piece(s) |
| Bar codes per reading gate, max. number Optical data Reading distance | 1,000 scans/s 64 Piece(s) |
| Bar codes per reading gate, max. number Optical data Reading distance Light source | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red |
| Bar codes per reading gate, max. Dptical data Reading distance Light source Laser light wavelength | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm |
| Bar codes per reading gate, max. humber Dptical data Reading distance Light source Laser light wavelength Laser class | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Jsable opening angle (reading field | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm |
| Bar codes per reading gate, max. humber Diptical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Jsable opening angle (reading field opening) Modulus size Reading method | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Jeable opening angle (reading field opening) Modulus size Reading method Beam deflection | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front |
| Bar codes per reading gate, max. humber Dptical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection |
| Bar codes per reading gate, max. number Defical data Reading distance Light source Laser light wavelength Laser class Fransmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit Performance data Supply voltage U _B | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection 18 30 V, DC |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection |
| Bar codes per reading gate, max. number Optical data Reading distance Light source Laser light wavelength Laser class Transmitted-signal shape Usable opening angle (reading field opening) Modulus size Reading method Beam deflection Light beam exit Electrical data Protective circuit Performance data Supply voltage U _B Power consumption, max. Inputs/outputs selectable | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection 18 30 V, DC |
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| Supply voltage U _B Power consumption, max. Inputs/outputs selectable Output current, max. | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection 18 30 V, DC 4.5 W |
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| par codes per reading gate, max. umber Optical data Reading distance ight source aser light wavelength aser class ransmitted-signal shape leading field pening) Indulus size Reading method reading method leam deflection ight beam exit Electrical data Protective circuit Performance data Supply voltage UB Power consumption, max. Inputs/outputs selectable Output current, max. Number of inputs/outputs selectable Input current, max. | 1,000 scans/s 64 Piece(s) 100 475 mm Laser, Red 655 nm 2, IEC/EN 60825-1:2007 Continuous 60 ° 0.3 0.8 mm Line scanner Via rotating polygon wheel Front Polarity reversal protection 18 30 V, DC 4.5 W 60 mA 2 2 Piece(s) |

| EtherNet IP | |
|---|---|
| Function | Process |
| Address assignment | DHCP |
| 3 | Manual address assignment |
| Switch functionality | Integrated |
| Transmission speed | 10 Mbit/s |
| | 100 Mbit/s |
| | |
| Service interface | |
| Туре | USB |
| | |
| USB Function | Configuration via authors |
| runction | Configuration via software |
| Connection | |
| Number of connections | 1 Piece(s) |
| | |
| Connection 1 Function | BUS IN |
| Tunction | Connection to device |
| | Data interface |
| | PWR / SW IN / OUT |
| | Service interface |
| Type of connection | Plug connector |
| No. of pins | 32 -pin |
| Туре | Male |
| Mechanical data | |
| Mechanical data | |
| B | |
| Design | Cubic |
| Dimension (W x H x L) | 95 mm x 44 mm x 68 mm |
| Dimension (W x H x L) Housing material | 95 mm x 44 mm x 68 mm Metal |
| Dimension (W x H x L) Housing material Metal housing | 95 mm x 44 mm x 68 mm Metal Diecast aluminum |
| Dimension (W x H x L) Housing material Metal housing Lens cover material | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g |
| Dimension (W x H x L) Housing material Metal housing Lens cover material | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display Number of LEDs | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s) |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display Number of LEDs Type of configuration Environmental data | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s) Via web browser |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display Number of LEDs Type of configuration Environmental data Ambient temperature, operation | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s) Via web browser |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display Number of LEDs Type of configuration Environmental data Ambient temperature, operation Ambient temperature, storage | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s) Via web browser 0 40 °C -20 70 °C |
| Dimension (W x H x L) Housing material Metal housing Lens cover material Net weight Housing color Type of fastening Operation and display Type of display Number of LEDs Type of configuration Environmental data Ambient temperature, operation | 95 mm x 44 mm x 68 mm Metal Diecast aluminum Glass 270 g Black Red Dovetail grooves Fastening on back Via optional mounting device LED Monochromatic graphic display, 128 x 32 pixels 2 Piece(s) Via web browser |
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Technical data



Certifications

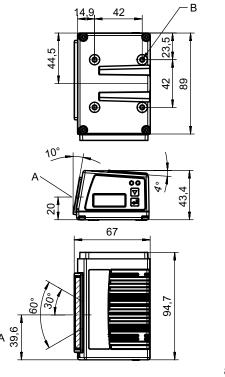
| Degree of protection | IP 65 |
|---|--------------------------|
| Protection class | III |
| Certifications | c UL US |
| Test procedure for EMC in accordance | EN 55022 |
| with standard | EN 61000-4-2, -3, -4, -6 |
| Test procedure for shock in accordance with standard | IEC 60068-2-27, test Ea |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

Classification

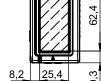
| Customs tariff number | 84719000 |
|-----------------------|----------|
| eCl@ss 5.1.4 | 27280102 |
| eCI@ss 8.0 | 27280102 |
| eCl@ss 9.0 | 27280102 |
| eCl@ss 10.0 | 27280102 |
| eCl@ss 11.0 | 27280102 |
| ETIM 5.0 | EC002550 |
| ETIM 6.0 | EC002550 |
| ETIM 7.0 | EC002550 |

Dimensioned drawings

All dimensions in millimeters



- A Optical axis
- B M4 thread (5 deep)



Electrical connection

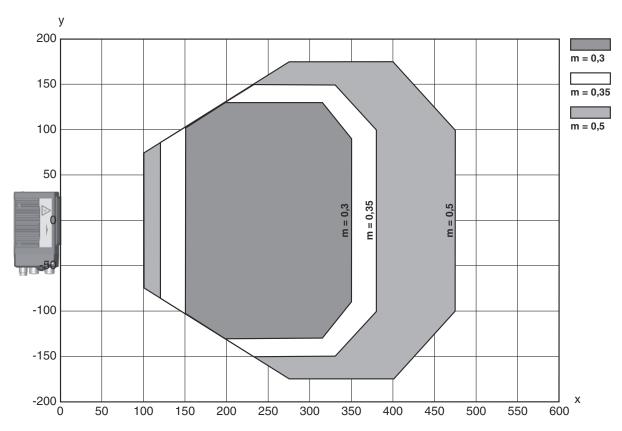
Connection 1

| Function | BUS IN |
|--------------------|----------------------|
| | Connection to device |
| | Data interface |
| | PWR / SW IN / OUT |
| | Service interface |
| Type of connection | Plug connector |
| No. of pins | 32 -pin |
| Туре | Male |
| | |

Diagrams



Reading field curve



- x Reading field distance [mm]
- y Reading field width [mm]

Operation and display

| LED | Display | Meaning |
|-------|---------------------------------------|---------------------------------|
| 1 PWR | Green, flashing | Device ok, initialization phase |
| | Green, continuous light | Device OK |
| | Green, briefly off - on | Reading successful |
| | green, briefly off - briefly red - on | Reading not successful |
| | Orange, continuous light | Service mode |
| | Red, flashing | Device OK, warning set |
| | Red, continuous light | Error, device error |
| 2 NET | Green, flashing | Initialization |
| | Green, continuous light | Bus operation ok |
| | Red, flashing | Communication error |
| | Red, continuous light | Bus error |

Part number code



Part designation: BCL XXXX YYZ AAA BB CCCC

| BCL | Operating principle BCL: bar code reader |
|------|--|
| xxxx | Series/interface (integrated fieldbus technology) 300i: RS 232 / RS 422 (stand-alone) 301i: RS 485 (multiNet slave) 304i: PROFIBUS DP 308i: EtherNet TCP/IP, UDP 348i: PROFINET RT 358i: EtherNet/IP |
| YY | Scanning principle S: line scanner (single line) R1: line scanner (raster) O: oscillating-mirror scanner (oscillating mirror) |
| z | Optics N: High Density (close) M: Medium Density (medium distance) F: Low Density (remote) L: Long Range (very large distances) J: ink-jet (depending on the application) |
| AAA | Beam exit 100: lateral 102: front |
| ВВ | Special equipment D: with display H: with heating DH: optionally with display and heating P: plastic exit window |
| cccc | Functions F007: optimized process data structure |

Note



🖔 A list with all available device types can be found on the Leuze website at www.leuze.com.

Notes



Observe intended use!



- 🖔 This product is not a safety sensor and is not intended as personnel protection.
- \$ Only use the product in accordance with its intended use.

Notes





WARNING! LASER RADIATION - CLASS 2 LASER PRODUCT



Do not stare into beam!

The device satisfies the requirements of IEC 60825-1:2007 (EN 60825-1:2007) safety regulations for a product of laser class 2 as well as the U.S. 21 CFR 1040.10 regulations with deviations corresponding to "Laser Notice No. 50" from June 24, 2007.

- Never look directly into the laser beam or in the direction of reflected laser beams! If you look into the beam path over a longer time period, there is a risk of injury to the retina.
- ♥ Do not point the laser beam of the device at persons!
- 🔖 Interrupt the laser beam using a non-transparent, non-reflective object if the laser beam is accidentally directed towards a person.
- 🔖 When mounting and aligning the device, avoid reflections of the laser beam off reflective surfaces!
- by CAUTION! Use of controls or adjustments or performance of procedures other than specified herein may result in hazardous light exposure.
- b Observe the applicable statutory and local laser protection regulations.
- The device must not be tampered with and must not be changed in any way. There are no user-serviceable parts inside the device. Repairs must only be performed by Leuze electronic GmbH + Co. KG.

NOTE



Affix laser information and warning signs!

Laser information and warning signs are affixed to the device. In addition, self-adhesive laser information and warning signs (stick-on labels) are supplied in several languages.

- Affix the laser information sheet to the device in the language appropriate for the place of use. When using the device in the US, use the stick-on label with the "Complies with 21 CFR 1040.10" note.
- Affix the laser information and warning signs near the device if no signs are attached to the device (e.g. because the device is too small) or if the attached laser information and warning signs are concealed due to the installation position.
- Affix the laser information and warning signs so that they are legible without exposing the reader to the laser radiation of the device or other optical radiation.

Accessories

Connection technology - Connection cables

| | Part no. | Designation | Article | Description |
|----|----------|-------------------------|------------------|--|
| | 50132079 | KD U-M12-5A-V1- 050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connection 2: Open end Shielded: No Cable length: 5,000 mm Sheathing material: PVC |
| Ů, | 50135074 | KS ET-M12-4A-P7- 050 | Connection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Open end Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR |

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Accessories



Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|--|----------|---------------------------------|-----------------------|--|
| | 50117011 | KB USB A - USB miniB | Service line | Suitable for interface: USB Connection 1: USB Connection 2: USB Shielded: Yes Cable length: 1,500 mm Sheathing material: PVC |
| | 50137078 | KSS ET-M12-4A- M12-4A-P7-050 | Interconnection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin Shielded: Yes Cable length: 1,000 mm Sheathing material: PUR |
| | 50135081 | KSS ET-M12-4A- RJ45-A-P7-050 | Interconnection cable | Suitable for interface: Ethernet Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin Connection 2: RJ45 Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR |

Mounting technology - Mounting brackets

| Part no. | Designation | Article | Description |
|----------|-------------|-----------------|---|
| 50121433 | BT 300 W | Mounting device | Design of mounting device: Angle, L-shape Fastening, at system: Through-hole mounting Mounting bracket, at device: Screw type Type of mounting device: Adjustable Material: Metal |

Mounting technology - Rod mounts

| Part no. | Designation | Article | Description |
|----------|-------------|-----------------|--|
| 50121435 | BT 56 - 1 | Mounting device | Functions: Static applications Design of mounting device: Mounting system Fastening, at system: For 12 mm rod, For 14 mm rod, For 16 mm rod Mounting bracket, at device: Clampable Material: Metal Tightening torque of the clamping jaws: 8 N·m |

Mounting technology - Other

| Part no. | Designation | Article | Description |
|----------|-------------|-----------------|---|
| 50124941 | BTU 0300M-W | Mounting device | Fastening, at system: Through-hole mounting Mounting bracket, at device: Clampable, Groove mounting, Suited for M4 screws Material: Metal |

Accessories



Reflective tapes for standard applications

| Part no. | Designation | Article | Description |
|----------|-----------------|-----------------|---|
| 50106119 | REF 4-A-100x100 | Reflective tape | Design: Rectangular Reflective surface: 100 mm x 100 mm Material: Plastic Chemical designation of the material: PMMA Fastening: Self-adhesive |

Services

| | Part no. | Designation | Article | Description |
|-------------------|----------|-------------|---|---|
| р В | S981020 | CS30-E-212 | Hourly rate for "Configuration" | Details: Compilation of the application data, selection and suggestion of suitable sensor system, drawing prepared as assembly sketch. Conditions: Completed questionnaire or project specifications with a description of the application have been provided. Restrictions: Travel and accommodation charged separately and according to expenditure. |
| | S981014 | CS30-S-110 | Start-up support | Details: Performed at location of customer's choosing, duration: max. 10 hours. Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses. Restrictions: No mechanical (mounting) and electrical (wiring) work performed, no changes (attachments, wiring, programming) to third-party components in the nearby environment. |
| | S981019 | CS30-T-110 | Product training | Details: Location and content to be agreed upon, duration: max. 10 hours. Conditions: Price not including travel costs and, if applicable, accommodation expenses. Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure. |
| | S981021 | CS30-V-212 | Hourly rate for "Bar code qualification" | Details: REA evaluation with creation of a test report, evaluation of the code quality. Conditions: Original bar codes to be provided by the client. |

Note



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