# SMART SENSOR BUSINESS

## Leuze electronic
the sensor people

**Part no.: 50134100**
# DCR 202i FIX-M1-102-R3-G-V
## Stationary 2D-code reader

CE

c(UL)us LISTED

RS232

RS422

Ethernet

ECOLAB

IP 67

IP 67

IP 69K

Figure can vary

# Contents

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## Technical data

| Basic data | |
|---|---|
| Series | DCR 200i |
| Chip | CMOS |

| Functions | |
|---|---|
| Software functions | Reading of 1D codes<br>Reading of 2D codes |

| Read data | |
|---|---|
| Code types, readable | 2/5 Interleaved<br>Aztec<br>Codabar<br>Code 128<br>Code 32<br>Code 39<br>Code 93<br>Data Matrix Code<br>EAN 128<br>EAN 8/13<br>GS1 Databar<br>GS1 Databar Omnidirectional<br>GS1 Databar QR code<br>GS1 Databar Stacked<br>PDF417<br>Pharma Code<br>QR code<br>UPC |

| Optical data | |
|---|---|
| Reading distance | 50 ... 220 mm |
| Light source | LED, Red |
| Transmitted-signal shape | Pulsed |
| Camera resolution, horizontal | 1,280 px |
| Camera resolution, vertical | 960 px |
| Module size | 0.19 ... 0.5 mm |
| Electronic shutter speed | 0.068 ... 5 ms |
| Camera type | Monochrome |

| Electrical data | |
|---|---|
| Protective circuit | Polarity reversal protection<br>Short circuit protected |
| **Performance data** | |
| Supply voltage $U_B$ | 18 ... 30 V, DC |
| Average power consumption | 8 W |
| **Inputs** | |
| Number of digital switching inputs | 1 Piece(s) |
| **Switching inputs** | |
| Voltage type | DC |

# Part no.: 50134100 – DCR 202i FIX-M1-102-R3-G-V – Stationary 2D-code

| *Outputs* | |
|---|---|
| Number of digital switching outputs | 1 Piece(s) |
| ***Switching outputs*** | |
| Voltage type | DC |
| Switching current, max. | 100 mA |
| ***Switching output 1*** | |
| Switching element | MOSFET semiconductor, |
| Switching principle | +24 V switching |
| *Inputs/outputs selectable* | |
| Number of inputs/outputs selectable | 2 Piece(s) |
| Voltage type, outputs | DC |
| Voltage type, inputs | DC |

| *Interface* | |
|---|---|
| Type | RS 232, RS 422, Ethernet |
| ***RS 232*** | |
| Function | Process |
| Transmission speed | 4,800 ... 115,200 Bd |
| Data format | Adjustable |
| Start bit | 1 |
| Data bit | 8 data bits |
| Stop bit | 1 stop bit |
| Parity | None |
| Transmission protocol | <STX><data><CR><LF> |
| Data encoding | ASCII<br>Binary |
| ***RS 422*** | |
| Function | Process |
| Transmission speed | 4,800 ... 115,200 Bd |
| Data format | Adjustable |
| Start bit | 1 |
| Data bit | 7, 8 data bits |
| Stop bit | 1, 2 stop bits |
| Data encoding | ASCII<br>Binary |
| ***Ethernet*** | |
| Architecture | Client<br>Server |
| Address assignment | DHCP<br>Manual address assignment |
| Transmission speed | 10 Mbit/s<br>100 Mbit/s |
| Function | Process |
| Switch functionality | None |
| Transmission protocol | TCP/IP , UDP |

| *Service interface* | |
|---|---|
| Type | Ethernet |
| ***Ethernet*** | |
| Function | Service |

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| Connection | |
|---|---|
| Number of connections | 2 Piece(s) |
| **Connection 1** | |
| Type of connection | Connector |
| Function | Data interface<br>Signal IN<br>Signal OUT<br>Voltage supply |
| Thread size | M12 |
| Type | Male |
| Material | Stainless steel |
| No. of pins | 12 -pin |
| Encoding | A-coded |
| **Connection 2** | |
| Type of connection | Connector |
| Function | Configuration interface<br>Data interface |
| Thread size | M12 |
| Type | Female |
| Material | Stainless steel |
| No. of pins | 4 -pin |
| Encoding | D-coded |

| Mechanical data | |
|---|---|
| Design | Cubic |
| Dimension (W x H x L) | 46 mm x 61 mm x 46 mm |
| Housing material | Stainless steel, V4A |
| Lens cover material | Glass |
| Net weight | 392 g |
| Housing color | Silver |
| Type of fastening | Mounting thread<br>Via optional mounting device |
| Compatibility of materials | ECOLAB |

| Operation and display | |
|---|---|
| Type of display | LED |
| Number of LEDs | 3 Piece(s) |
| Type of configuration | Configuration codes<br>Teach-in<br>Via web browser |

| Environmental data | |
|---|---|
| Ambient temperature, operation | 0 ... 50 °C |
| Ambient temperature, storage | -20 ... 70 °C |
| Relative humidity (non-condensing) | 90 % |

| Certifications | |
|---|---|
| Degree of protection | IP 67<br>IP 69K |
| Protection class | III |
| Certifications | c UL US |
| Test procedure for EMC in accordance with standard | EN 61000-6-2<br>EN 61000-6-4 |

| Test procedure for continuous shock in accordance with standard | IEC 60068-2-29, test Eb |
|---|---|
| Test procedure for vibration in accordance with standard | IEC 60068-2-6, test Fc |

### Classification

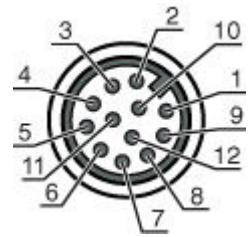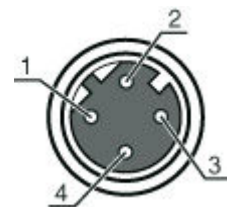| Customs tariff number | 84719000 |
|---|---|
| eCl@ss 8.0 | 27280103 |
| eCl@ss 9.0 | 27280103 |
| ETIM 5.0 | EC002999 |
| ETIM 6.0 | EC002999 |

## Dimensioned drawings

All dimensions in millimeters
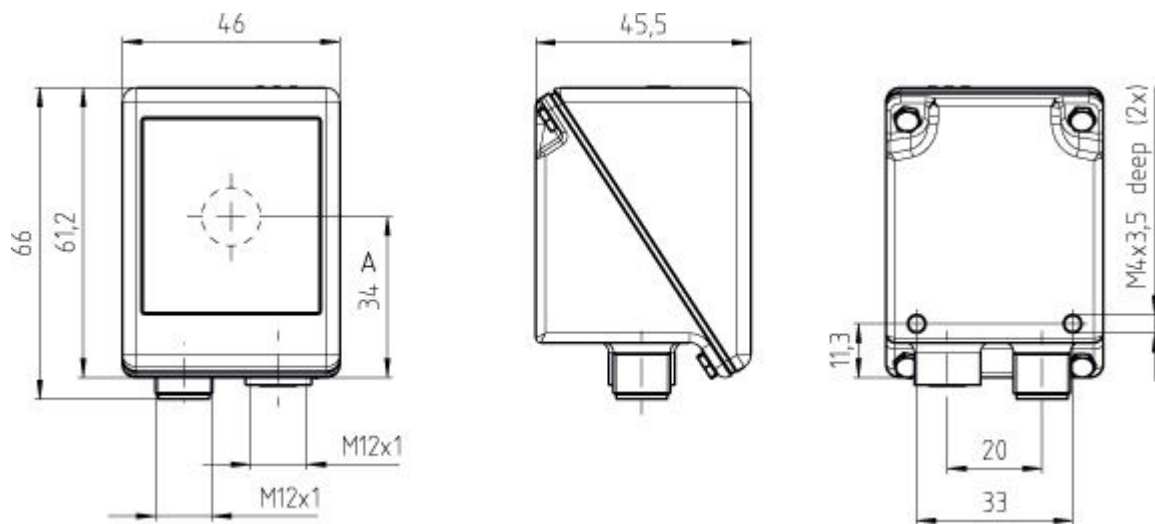


## Electrical connection

| **Connection 1** | **PWR / SWIO** |
|---|---|
| Type of connection | Connector |
| Function | Data interface<br>Signal IN<br>Signal OUT<br>Voltage supply |
| Thread size | M12 |
| Type | Male |
| Material | Stainless steel |
| No. of pins | 12 -pin |
| Encoding | A-coded |

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## Part no.: 50134100 – DCR 202i FIX-M1-102-R3-G-V – Stationary 2D-code

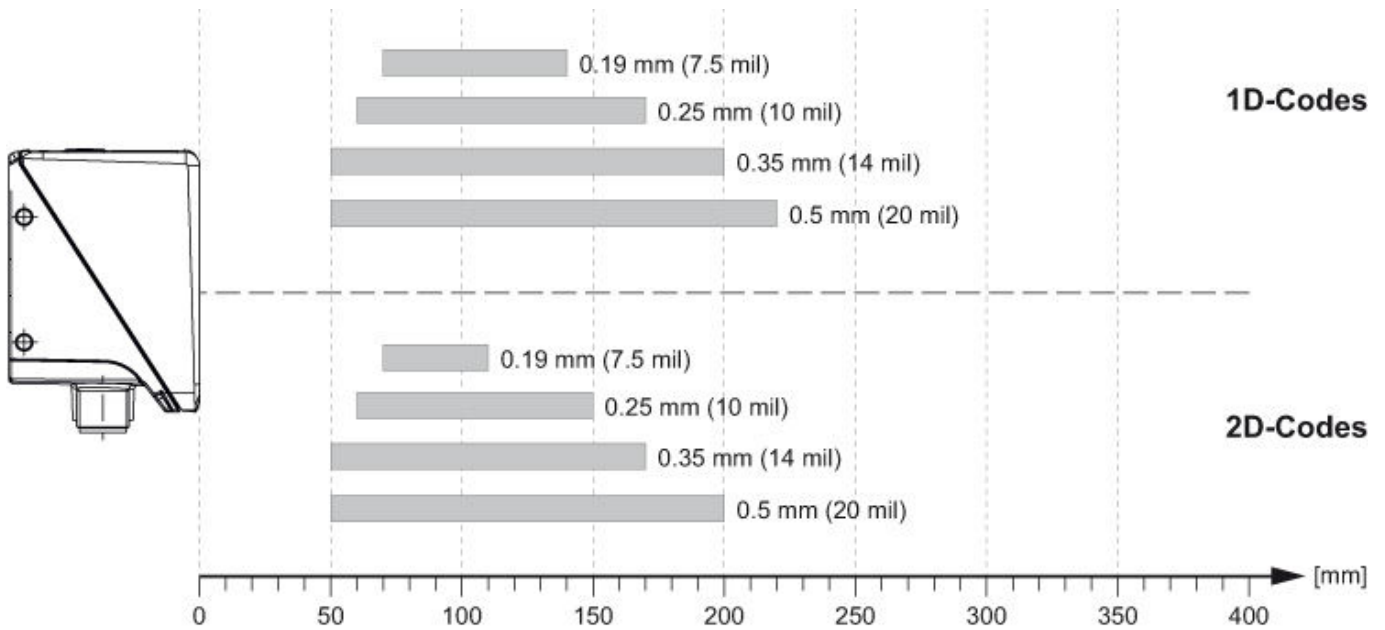| Pin | Pin assignment |
|---|---|
| 1 | VIN |
| 2 | GNDIN |
| 3 | SWIN 1 |
| 4 | SWOUT 2 |
| 5 | FE |
| 6 | GND RS 232 / GND RS 422 |
| 7 | Rx- |
| 8 | Tx- |
| 9 | RxD/Rx+ |
| 10 | TxD/Tx+ |
| 11 | SWIO 3 |
| 12 | SWIO 4 |

| Connection 2 | HOST |
|---|---|
| Type of connection | Connector |
| Function | Configuration interface<br>Data interface |
| Thread size | M12 |
| Type | Female |
| Material | Stainless steel |
| No. of pins | 4 -pin |
| Encoding | D-coded |

| Pin | Pin assignment |
|---|---|
| 1 | TD+ |
| 2 | RD+ |
| 3 | TD- |
| 4 | RD- |

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## Diagrams

Reading distances



Relationship between camera distance and reading field size
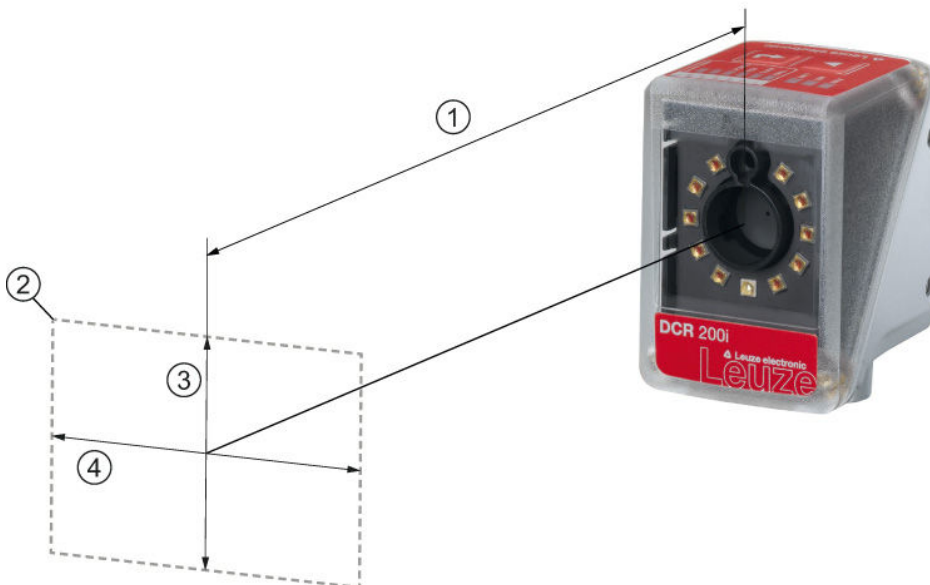


1 Camera distance
2 Reading field
3 Reading field height [mm]
4 Reading field width [mm]

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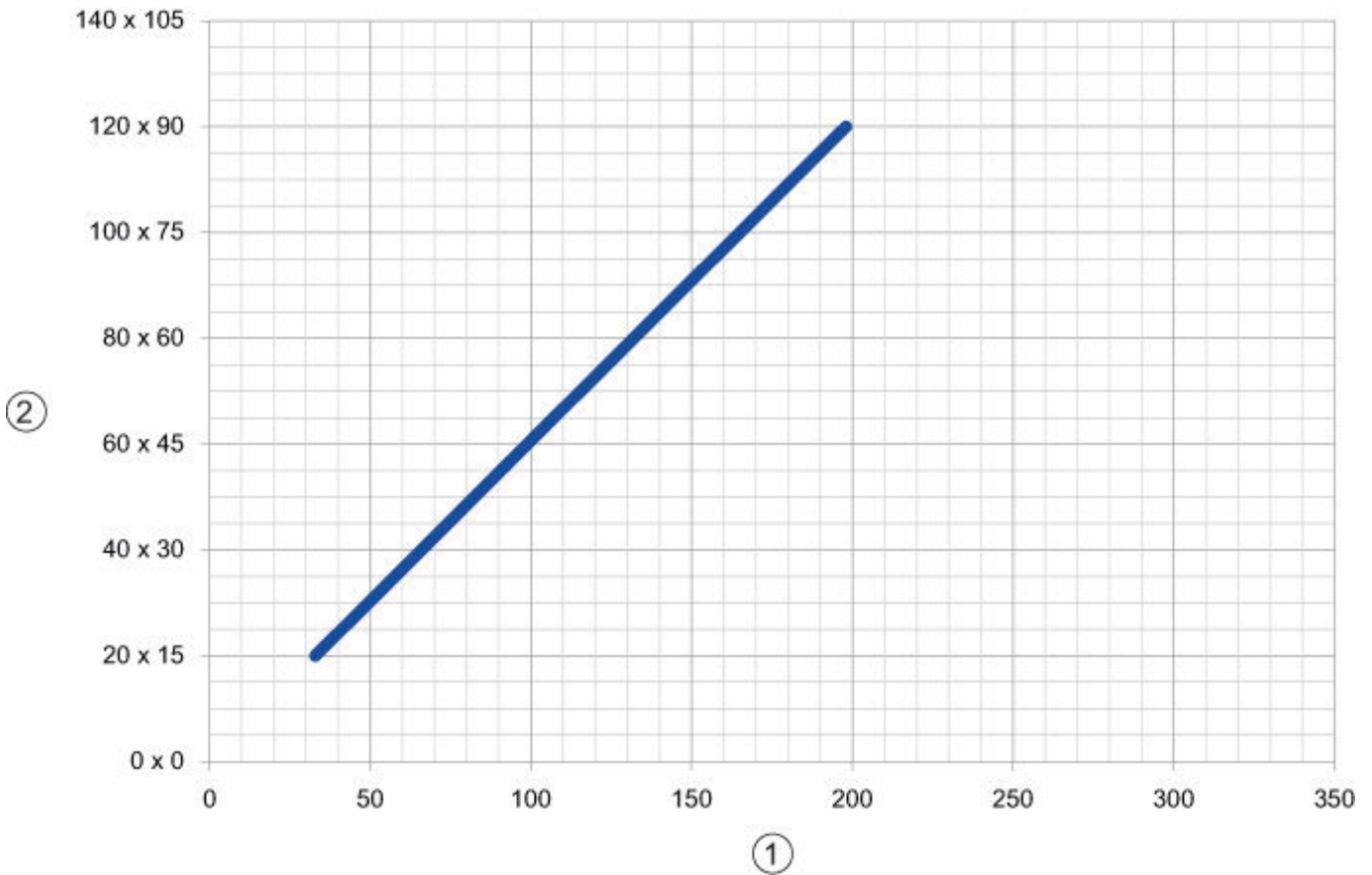
1     Camera distance [mm]
2     Reading field: width x height [mm]

## Operation and display

### LEDs

| LED |      | Display                    | Meaning                          |
|-----|------|----------------------------|----------------------------------|
| 1   | PWR  | Off                        | No supply voltage                |
|     |      | Green, flashing            | Initialization                   |
|     |      | Green, continuous light    | Operational readiness            |
|     |      | Orange, continuous light   | Service operation                |
|     |      | Red, flashing              | Device OK, warning set           |
|     |      | Red, continuous light      | Device error                     |
| 2   | NET  | Off                        | No supply voltage                |
|     |      | Green, flashing            | Initialization                   |
|     |      | Green, continuous light    | Operational readiness            |
|     |      | Red, flashing              | Communication error              |
|     |      | Red, continuous light      | Network error                    |
| 3   | LINK | Green, continuous light    | Ethernet connection is established |
|     |      | Yellow, flashing           | Data exchange active             |

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## Part number code

Part designation: **DCR XXX YYY-Z-AAA-BC-D-EEEE**

| | |
|---|---|
| DCR | **Operating principle:**<br>DCR: Dual Code Reader |
| XXXX | **Series/interface (integrated fieldbus technology):**<br>202i: Ethernet TCP/IP, UDP, RS 232/RS 422<br>248i: PROFINET-IO, Ethernet TCP/IP, UDP, RS 232/RS 422 |
| YYY | **Equipment:**<br>FIX: Fixed focal length |
| Z | **Optics:**<br>U: Ultra high density (very close)<br>N: High Density (close)<br>M: Medium Density (medium distance)<br>F: Low Density (remote)<br>L: Ultra low density (very large distance) |
| AAA | **Beam exit:**<br>102: front |
| B | **Illumination:**<br>R: Red light |
| C | **Resolution range:**<br>3: 1280 x 960 pixels |
| D | **Protective screen:**<br>n/a: Plastic<br>G: Glass<br>P: Polarization filter |
| EEEE | **Special equipment:**<br>V: Stainless steel housing<br>F001: NPN inputs/outputs<br>H: with heating |

| Note |
|---|
| A list with all available device types can be found on the Leuze electronic website at www.leuze.com. |

## Notes

| Observe intended use! |
|---|
| • This product is not a safety sensor and is not intended as personnel protection.<br><br>• The product may only be put into operation by competent persons.<br><br>• Only use the product in accordance with its intended use. |

## Accessories

# Connection technology - Connection unit

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50130109 | MA 150 | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 150 mA<br>Connections: 5 Piece(s)<br>Degree of protection: IP 67 |
|  | 50112893 | MA 204i Profibus Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: PROFIBUS DP, RS 232<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |

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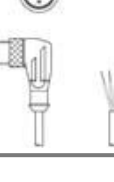We reserve the right to make technical changes • eng 2019-03-26
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Part no.: 50134100 – DCR 202i FIX-M1-102-R3-G-V – Stationary 2D-code

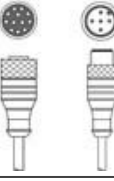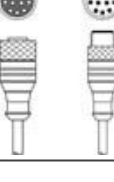| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
| | 50114154 | MA 235i CANopen Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: CANopen, RS 232<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |
| | 50114155 | MA 238i EtherCAT Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: EtherCAT, RS 232<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |
| | 50112891 | MA 248i Profinet Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: PROFINET, RS 232<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |
| | 50114156 | MA 255i DeviceNet Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: RS 232, DeviceNet<br>Connections: 6 Piece(s)<br>Degree of protection: IP 67 |
| | 50114157 | MA 258i EtherNet/ IP Gateway | Modular connection unit | Supply voltage: 18 ... 30 V<br>Current consumption, max.: 300 mA<br>Interface: EtherNet IP, RS 232<br>Connections: 6 Piece(s)<br>Degree of protection: IP 65 |

## Connection technology - Connection cables

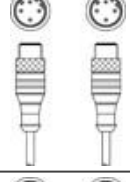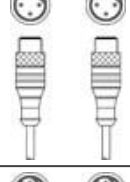| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
| | 50130281 | KD S-M12-CA-P1-020 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 2,000 mm<br>Sheathing material: PUR |
| | 50130282 | KD S-M12-CA-P1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |
| | 50130283 | KD S-M12-CA-P1-100 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| | 50134943 | KD S-M12-CW-P1-050 | Connection cable | Connection 1: Connector, M12, Angled, Female, A-coded, 12 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |

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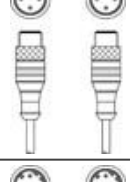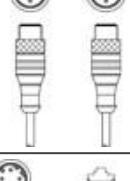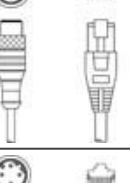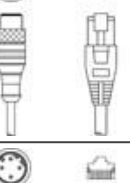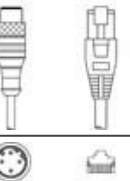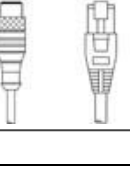
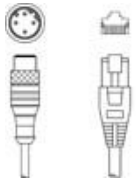| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
| | 50135073 | KS ET-M12-4A-P7-020 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 2,000 mm<br>Sheathing material: PUR |
| | 50135074 | KS ET-M12-4A-P7-050 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |
| | 50135075 | KS ET-M12-4A-P7-100 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| | 50135076 | KS ET-M12-4A-P7-150 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 15,000 mm<br>Sheathing material: PUR |
| | 50135077 | KS ET-M12-4A-P7-300 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 30,000 mm<br>Sheathing material: PUR |
| | 50134942 | KS ET-M12-4W-P7-050 | Connection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Angled, Male, D-coded, 4 -pin<br>Connection 2: Open end<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |

## Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
| | 50132488 | KB JST-M12A-12P-50 | Interconnection cable | |
| | 50137694 | KDS S-M12-CA-M12-5A-P1-004-23X | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Connector, M12, Axial, Male, A-coded, 5 -pin<br>Shielded: Yes<br>Cable, crossed: Connection 1, pin 2 <-> connection 2, pin 3<br>Cable length: 400 mm<br>Sheathing material: PUR |
| | 50130284 | KDS S-M12-CA-M12-CA-P1-020 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin<br>Shielded: Yes<br>Cable length: 2,000 mm<br>Sheathing material: PUR |

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| | | Part no. | Designation | Article | Description |
|---|---|---|---|---|---|
| | | 50130285 | KDS S-M12-CA-M12-CA-P1-050 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |
| | | 50130286 | KDS S-M12-CA-M12-CA-P1-100 | Interconnection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Connector, M12, Axial, Male, A-coded, 12 -pin<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| | | 50137077 | KSS ET-M12-4A-M12-4A-P7-020 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Shielded: Yes<br>Cable length: 1,000 mm<br>Sheathing material: PUR |
| | | 50137078 | KSS ET-M12-4A-M12-4A-P7-050 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Shielded: Yes<br>Cable length: 1,000 mm<br>Sheathing material: PUR |
| | | 50137079 | KSS ET-M12-4A-M12-4A-P7-100 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| | | 50137080 | KSS ET-M12-4A-M12-4A-P7-150 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Shielded: Yes<br>Cable length: 15,000 mm<br>Sheathing material: PUR |
| | | 50135080 | KSS ET-M12-4A-RJ45-A-P7-020 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 2,000 mm<br>Sheathing material: PUR |
| | | 50135081 | KSS ET-M12-4A-RJ45-A-P7-050 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 5,000 mm<br>Sheathing material: PUR |
| | | 50135082 | KSS ET-M12-4A-RJ45-A-P7-100 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 10,000 mm<br>Sheathing material: PUR |
| | | 50135083 | KSS ET-M12-4A-RJ45-A-P7-150 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 15,000 mm<br>Sheathing material: PUR |

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| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50135084 | KSS ET-M12-4A-RJ45-A-P7-300 | Interconnection cable | Suitable for interface: Ethernet<br>Connection 1: Connector, M12, Axial, Male, D-coded, 4 -pin<br>Connection 2: RJ45<br>Shielded: Yes<br>Cable length: 30,000 mm<br>Sheathing material: PUR |

## Connection technology - Connectors

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50132254 | D M12A-12P | Connector | Connection: Connector with solder connection, M12, Axial, Female, A-coded, 12 -pin |
|  | 50112155 | S-M12A-ET | Connector | Suitable for interface: Ethernet<br>Connection: Connector, M12, Axial, Male, D-coded, 4 -pin |

## Connection technology - Adapters

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50132255 | D M12A-12P-PWR | Adapter | Number of connections: 2 Piece(s)<br>Connection 1: Connector, M12, Axial, Female, A-coded, 12 -pin<br>Connection 2: Jack socket |

## Mounting technology - Mounting brackets

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50132151 | BT 320M | Mounting bracket | Design of mounting device: Angle, L-shape<br>Fastening, at system: Through-hole mounting<br>Mounting bracket, at device: Screw type<br>Type of mounting device: Rigid<br>Material: Metal |

## Mounting technology - Rod mounts

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
|  | 50132150 | BTU 320M-D12 | Mounting system | Contains: 4x M4 x 6 screws<br>Design of mounting device: Mounting system<br>Fastening, at system: For 12 mm rod<br>Mounting bracket, at device: Screw type<br>Type of mounting device: Clampable, Adjustable, Turning, 360°<br>Material: Metal |

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## Services

| | Part no. | Designation | Article | Description |
|---|---|---|---|---|
| | S981014 | CS30-S-110 | Start-up support | Details: Performed at location of customer's choosing, duration: max. 10 hours.<br>Conditions: Devices and connection cables are already mounted, price not including travel costs and, if applicable, accommodation expenses.<br>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.<br>Conditions: Price not including travel costs and, if applicable, accommodation expenses.<br>Restrictions: Travel costs and accommodation expenses charged separately and according to expenditure. |

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