

Technical data sheet

Optical data transmission

Part no.: 50106034
DDLS 200/300.2-10-H-M12

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For illustration purposes only



Technical data

Basic data

| | |
|--------|----------|
| Series | DDLS 200 |
|--------|----------|

Special version

| | |
|-----------------|---------------------------------------|
| Special version | Heating |
| | Not influenced by reflective surfaces |
| | Operation of parallel light axes |

Optical data

| | |
|------------------------|--------------------|
| Working range | 200 ... 300,000 mm |
| Light source | LED |
| Transmission frequency | F2 |
| Opening angle | 1 ° |

Electrical data

Performance data

| | |
|----------------------|-----------------|
| Supply voltage U_B | 18 ... 30 V, DC |
|----------------------|-----------------|

Inputs

| | |
|------------------------------------|------------|
| Number of digital switching inputs | 1 Piece(s) |
|------------------------------------|------------|

Outputs

| | |
|-------------------------------------|------------|
| Number of digital switching outputs | 1 Piece(s) |
|-------------------------------------|------------|

Interface

| | |
|------|---------------------|
| Type | PROFIBUS DP, RS 485 |
|------|---------------------|

PROFIBUS DP

| | |
|--------------------|-----------------------|
| Transmission speed | 0.0096 ... 1.5 Mbit/s |
|--------------------|-----------------------|

Connection

| | |
|-----------------------|------------|
| Number of connections | 3 Piece(s) |
|-----------------------|------------|

Connection 1

| | |
|-----------------------|-----------|
| Type of connection | Connector |
| Designation on device | BUS IN |
| Thread size | M12 |
| Type | Male |
| No. of pins | 5 -pin |
| Encoding | B-coded |

Connection 2

| | |
|-----------------------|-----------|
| Type of connection | Connector |
| Designation on device | Bus OUT |
| Thread size | M12 |
| Type | Female |
| No. of pins | 5 -pin |
| Encoding | B-coded |

Connection 3

| | |
|-----------------------|-----------|
| Type of connection | Connector |
| Designation on device | PWR |
| Thread size | M12 |
| Type | Male |
| No. of pins | 5 -pin |
| Encoding | A-coded |

Mechanical data

| | |
|-----------------------|--------------------------------|
| Dimension (W x H x L) | 89.25 mm x 196.5 mm x 111.8 mm |
| Housing material | Metal |
| Net weight | 1,245 g |

Operation and display

| | |
|-----------------|-----------|
| Type of display | Bar graph |
| | LED |

Environmental data

| | |
|--------------------------------|---------------|
| Ambient temperature, operation | -30 ... 50 °C |
| Ambient temperature, storage | -30 ... 70 °C |

Certifications

| | |
|--|--|
| Degree of protection | IP 65 |
| Approvals | c UL US |
| Test procedure for EMC in accordance with standard | EN 61000-6-2:2005 EN 61000-6-4:2001 |
| Test procedure for noise in accordance with standard | EN 60068-2-64 |
| Test procedure for oscillation in accordance with standard | EN 60068-2-6 |
| Test procedure for shock in accordance with standard | EN 60068-2-27 EN 60068-2-29 |

Classification

| | |
|-----------------------|----------|
| Customs tariff number | 84718000 |
| ECLASS 5.1.4 | 19039001 |
| ECLASS 8.0 | 19179090 |
| ECLASS 9.0 | 19179090 |
| ECLASS 10.0 | 19170506 |
| ECLASS 11.0 | 19170506 |
| ECLASS 12.0 | 19170506 |
| ECLASS 13.0 | 19170506 |
| ECLASS 14.0 | 19170506 |
| ECLASS 15.0 | 19170506 |
| ETIM 5.0 | EC000515 |
| ETIM 6.0 | EC000515 |
| ETIM 7.0 | EC000515 |
| ETIM 8.0 | EC000515 |
| ETIM 9.0 | EC000515 |
| ETIM 10.0 | EC000515 |

Electrical connection

Connection 1

BUS IN

| | |
|--------------------|-----------|
| Function | BUS IN |
| Type of connection | Connector |
| Thread size | M12 |
| Type | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | B-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | n.c. |
| 2 | A (N) |
| 3 | GND |
| 4 | B (P) |
| 5 | n.c. |

Connection 2

Bus OUT

| | |
|--------------------|-----------|
| Function | BUS OUT |
| Type of connection | Connector |
| Thread size | M12 |
| Type | Female |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | B-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | VCC |
| 2 | A (N) |
| 3 | GND |
| 4 | B (P) |
| 5 | n.c. |

Connection 3

PWR

| | |
|--------------------|----------------|
| Function | Voltage supply |
| Type of connection | Connector |
| Thread size | M12 |
| Type | Male |
| Material | Metal |
| No. of pins | 5 -pin |
| Encoding | A-coded |

| Pin | Pin assignment |
|-----|----------------|
| 1 | VIN |
| 2 | OUT WARN |
| 3 | GND |
| 4 | IN 1 |
| 5 | FE |


Operation and display

| LED | Display | Meaning |
|-----|---------|----------------|
| 1 | Green | Operating mode |
| 2 | Green | PWR |

Operation and display




| LED | Display | Meaning |
|-----|---------|--------------------|
| 3 | Green | TRANSMIT DATA (Tx) |
| 4 | Green | RECEIVE DATA (Rx) |

Suitable transmitters

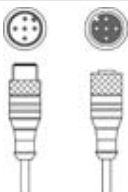
| | Part no. | Designation | Article | Description |
|---|----------|-------------------------|---------------------------|--|
|  | 50106033 | DDLS 200/300.1-10-H-M12 | Optical data transmission | Special version: Heating, Not influenced by reflective surfaces, Operation of parallel light axes Working range: 200 ... 300,000 mm Transmission frequency: F1 Interface: PROFIBUS DP, RS 485 Connection: Connector, M12 |

Accessories

Connection technology - Connection cables


| | Part no. | Designation | Article | Description |
|--|----------|---------------------|------------------|---|
|  | 50135243 | KD PB-M12-4A-P3-050 | Connection cable | Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR |
|  | 50132079 | KD U-M12-5A-V1-050 | Connection cable | Connection 1: Connector, M12, Axial, Female, A-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: No Cable length: 5.000 mm Sheathing material: PVC |
|  | 50135248 | KS PB-M12-4A-P3-050 | Connection cable | Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Male, B-coded, 5 -pin Connector, LED: No Connection 2: Open end Shielded: Yes Cable length: 5.000 mm Sheathing material: PUR |

Connection technology - Interconnection cables

| | Part no. | Designation | Article | Description |
|--|----------|-----------------------------|-----------------------|---|
|  | 50135254 | KDS PB-M12-4A-M12-4A-P3-050 | Interconnection cable | Suitable for interface: PROFIBUS DP Connection 1: Connector, M12, Axial, Female, B-coded, 5 -pin Connection 2: Connector, M12, Axial, Male, B-coded, 4 -pin Shielded: Yes Cable length: 5,000 mm Sheathing material: PUR |

Accessories

Connection technology - Terminating resistors

| | Part no. | Designation | Article | Description |
|--|----------|-------------|-----------------|---|
|  | 50038539 | TS 02-4-SA | Terminator plug | Suitable for: MultiNet Plus, PROFIBUS DP Function: Bus termination Connection 1: Connector, M12, Axial, Male, B-coded, 4 -pin |

Note



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