

Technical data sheet Optical data transmission

Part no.: 50038287

DDLS 200/300.2-10-H

Contents

- Technical data
- Electrical connection
- Operation and display
- Suitable transmitters



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 | Terminal |
| Cable gland | M16 |
| No. of pins | 8 -pin |

Connection 2

| | |
|--------------------|----------|
| Type of connection | Terminal |
| Cable gland | M16 |
| No. of pins | 6 -pin |

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 |
| ECLASS 16.0 | 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 |
| UNSPSC 26.08 | 43201544 |

Electrical connection

Connection 1

| | |
|--------------------|----------------|
| Function | Voltage supply |
| Type of connection | Terminal |
| Cable gland | M16 |
| No. of pins | 8 -pin |

Electrical connection

| Terminal | Assignment |
|----------|------------|
| 1 | OUT WARN |
| 2 | PE |
| 3 | GND |
| 4 | VIN |
| 5 | IN 1 |
| 6 | PE |
| 7 | GND |
| 8 | VIN |

Connection 2


| | |
|--------------------|----------------|
| Function | Data interface |
| Type of connection | Terminal |
| Cable gland | M16 |
| No. of pins | 6 -pin |

| Terminal | Assignment |
|----------|------------|
| 1 | COM |
| 2 | A (N) |
| 3 | B (P) |
| 4 | COM |
| 5 | A (N) |
| 6 | B (P) |

Operation and display

| LED | Display | Meaning |
|-----|---------|--------------------|
| 1 | Green | Operating mode |
| 2 | Green | PWR |
| 3 | Green | TRANSMIT DATA (Tx) |
| 4 | Green | RECEIVE DATA (Rx) |

Suitable transmitters

| | Part no. | Designation | Operating range Operating range limit | Description |
|---|----------|---------------------|---|---|
|  | 50038286 | DDLS 200/300.1-10-H | | 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: Terminal, M16 |