

## Technical data sheet

### Optical data transmission

Part no.: 50038286

DDLS 200/300.1-10-H

#### Contents

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



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 | F1                 |
| Opening angle          | 1 °                |

Electrical data

Performance data

|                               |                 |
|-------------------------------|-----------------|
| Supply voltage U <sub>B</sub> | 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             |
| Certifications                                             | 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 |
| ETIM 5.0              | EC000515 |
| ETIM 6.0              | EC000515 |
| ETIM 7.0              | EC000515 |
| ETIM 8.0              | EC000515 |
| ETIM 9.0              | EC000515 |

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 receivers

|                                                                                     | Part no. | Designation         | Article                   | Description                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------|----------|---------------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 50038287 | DDLS 200/300.2-10-H | Optical data transmission | Special version: Heating, Not influenced by reflective surfaces, Operation of parallel light axes<br>Working range: 200 ... 300,000 mm<br>Transmission frequency: F2<br>Interface: PROFIBUS DP, RS 485<br>Connection: Terminal, M16 |