

## Data interface - EM-RS485-GATEWAY-IFS - 2901527

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Gateway for the connection of up to 32 INTERFACE system devices to a higher-level controller via Modbus/RS-485. The INTERFACE system devices are connected to the Gateway via DIN rail connectors, the DIN rail connectors are provided.



### Key Commercial Data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 200.0 g  |
| Custom tariff number                 | 85389091 |
| Country of origin                    | Germany  |

### Technical data

#### Note

|                         |   |
|-------------------------|---|
| Utilization restriction | EMC: class A product, see manufacturer's declaration in the download area |
|-------------------------|---|

#### Device supply

|  |  |
|--|--|
| Rated control circuit supply voltage $U_s$ | 24 V DC -20 % ... +25 %                  |
| Rated control supply current $I_s$         | 85 mA (plus load current of the outputs) |
| Protective circuit                         | Reverse polarity protection              |
|  | Surge protection                         |

#### Digital inputs

|                               |                             |
|-------------------------------|-----------------------------|
| Number                        | 8                           |
| Rated actuating voltage $U_c$ | 24 V DC $\pm$ 20 %          |
| Rated actuating current $I_c$ | 3 mA                        |
| Protective circuit            | Reverse polarity protection |

#### Digital outputs

|             |                   |
|-------------|-------------------|
| Designation | Switching outputs |
| Number      | 4                 |

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### Technical data

#### Digital outputs

|                            |  |
|----------------------------|--|
| Note on protection circuit | Fusing with max. 8 A F-fuse  |
| Residual voltage           | 1 V  |
| Maximum switching voltage  | 23 V DC ( $U_B - U_{resid.}$ of the output)                              |
| Max. switching current     | 500 mA   |
| Protective circuit         | Parallel protection against polarity reversal, pay attention to the fuse |

#### Connection data supply

|                                  |   |
|----------------------------------|---|
| Connection name                  | Supply                                      |
| Connection method                | Screw connection                            |
| Stripping length                 | 8 mm  |
| Screw thread                     | M3  |
| Conductor cross section solid    | 0.2 mm <sup>2</sup> ... 2 mm <sup>2</sup>   |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 12 ... 24                                   |

#### Connection data programming connection

|                       |                        |
|-----------------------|------------------------|
| Connection name       | Programming connection |
| Connection method     | S-PORT (socket)        |
| Number of connections | 1                      |
| Number of positions   | 12                     |

#### Connection data INTERFACE system

|                       |                         |
|-----------------------|-------------------------|
| Connection name       | INTERFACE system        |
| Connection method     | DIN rail bus connectors |
| Number of connections | 1                       |
| Number of positions   | 5                       |

#### Connection data BUS connection

|                       |                  |
|-----------------------|------------------|
| Connection name       | RS-485           |
| Connection method     | Screw connection |
| Number of connections | 1                |
| Number of positions   | 5                |

#### General

|                       |                       |
|-----------------------|-----------------------|
| Operating mode        | 100% operating factor |
| Degree of protection  | IP20                  |
| Standards/regulations | EN 50178              |
| Degree of pollution   | 2                     |
| Overvoltage category  | III                   |
| Mounting position     | any                   |

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### Technical data

#### General

|                       |                             |
|-----------------------|-----------------------------|
| Assembly instructions | In rows with zero spacing   |
| Mounting type         | DIN rail mounting           |
| Housing material      | Polyamide PA non-reinforced |
| Color                 | green                       |

#### Serial interface

|                           |                         |
|---------------------------|-------------------------|
| Interface 1               | IFS interface           |
| Serial transmission speed | 76.8 kbps               |
| Connection method         | DIN rail bus connectors |
| Interface 2               | RS-485                  |
| Serial transmission speed | 9.6 k ... 115 kbaud     |
| Connection method         | MSTB plug entry         |

#### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -25 °C ... 50 °C |
| Ambient temperature (storage/transport) | -35 °C ... 80 °C |

#### Dimensions

|        |          |
|--------|----------|
| Width  | 22.5 mm  |
| Height | 99 mm    |
| Depth  | 114.5 mm |

#### Standards and Regulations

|                       |          |
|-----------------------|----------|
| Standards/regulations | EN 50178 |
| Degree of pollution   | 2        |
| Overvoltage category  | III      |

#### Classifications

##### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371190 |
| eCl@ss 4.1 | 27371190 |
| eCl@ss 5.0 | 27371692 |
| eCl@ss 5.1 | 27371692 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27242608 |

##### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000066 |
|----------|----------|

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## Classifications

### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000066 |
| ETIM 5.0 | EC001604 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211915 |
| UNSPSC 7.0901 | 39121514 |
| UNSPSC 11     | 39121514 |
| UNSPSC 12.01  | 39121514 |
| UNSPSC 13.2   | 39121514 |

## Approvals

### Approvals

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Approvals

UL Listed / cUL Listed / cULus Listed

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Ex Approvals

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Approvals submitted

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### Approval details

|           |
|-----------|
| UL Listed |
|-----------|

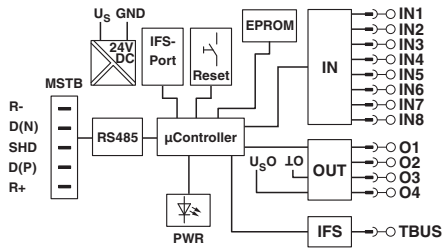
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|------------|
| cUL Listed |
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| cULus Listed |
|--------------|

## Drawings

# Data interface - EM-RS485-GATEWAY-IFS - 2901527

Block diagram



Schematic diagram

