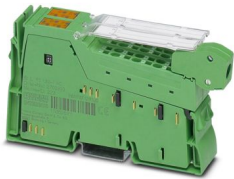


2701025

<https://www.phoenixcontact.com/us/products/2701025>

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Inline, Communication module, Serial data transmission; interface: RS-232, RS-485, RS-422: 1 (be operated simultaneously); Transmission speed: 110 bps ... 250000 bps; transmission speed in the local bus: 2 Mbps; degree of protection: IP20; Scope of supply: including Inline connectors and marking fields

Product description

Inline terminals with "2 MBD" added to their item designation work with a transmission speed of 2 Mbps. These terminal blocks are discontinued or no longer in the range. If you require this transmission speed, please ask your local Phoenix Contact representative. If you can work with a transmission speed of 500 kbps, select as a replacement the corresponding variant that does not have "2MBD" added to its item designation. Please note that a uniform transmission speed must always be used within one inline station. The terminal is designed for use within an Inline station. It is used to operate standard I/O devices with serial interfaces on a bus system.

Your advantages

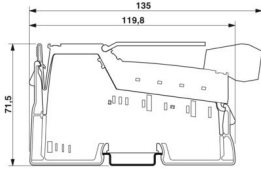
- A serial input and output channel in RS-232, RS-422, and RS-485 format
- Various protocols supported
- Transmission speed can be set up to 250000 bps
- Number of data bits, stop bits and parity can be set
- Parameterization via process data or PCP
- Process data width can be set via DIP switches: 7, 15 or 31 words

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2701025 |
| Packing unit | 1 pc |
| Sales key | DR01 |
| Product key | DRI151 |
| GTIN | 4046356681773 |
| Weight per piece (including packing) | 174.3 g |
| Weight per piece (excluding packing) | 135 g |
| Customs tariff number | 85389091 |
| Country of origin | DE |

Technical data

Dimensions

| | | |
|---------------------|--|--|
| Dimensional drawing | |  |
| Width | | 24.3 mm |
| Height | | 135.4 mm |
| Depth | | 71.5 mm |

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Material specifications

| | |
|-----------------|------------------|
| Color (Housing) | green (RAL 6021) |
|-----------------|------------------|

Interfaces

Inline local bus

| | |
|----------------------|--------------------|
| Number of interfaces | 2 |
| Connection method | Inline data jumper |
| Transmission speed | 2 Mbps |

RS-232, RS-485, RS-422

| | |
|-------------------------------|---|
| Number of interfaces | 1 (be operated simultaneously) |
| Connection method | Spring-cage connection |
| Note on the connection method | Use shielded cables. |
| Transmission speed | 110 bps ... 250000 bps (can be parameterized) |
| Transmission physics | Copper |
| Protocols supported | Transparent, end-to-end, XON/XOFF |
| Termination resistor | typ. 120 Ω (active, integrated) |
| Data bits | 5 ... 8 |
| Stop bits | 1 or 2 |
| Input buffer | 4 kByte |
| Output buffer | 1 kByte |

System properties

Programming data (LocalbusSlave)

| | |
|-------------------|----|
| Length code (hex) | 1F |
|-------------------|----|

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| | |
|-------------------------|--------------|
| ID code (dec.) | 223 |
| Length code (dec) | 31 |
| Process data channel | 496 bit |
| Input address area | max. 62 Byte |
| Output address area | max. 62 Byte |
| Parameter channel (PCP) | 2 Byte |
| Register length (bus) | max. 64 Byte |

Fieldbus data telegram

| | |
|-----------------------------|---------|
| Required parameter data | 23 Byte |
| Required configuration data | 5 Byte |

Product properties

| | |
|-----------------|--|
| Product type | I/O component |
| Product family | Inline |
| Type | modular |
| Scope of supply | including Inline connectors and marking fields |

Insulation characteristics

| | |
|----------------------|------------------------------|
| Overvoltage category | II (IEC 60664-1, EN 60664-1) |
| Pollution degree | 2 (IEC 60664-1, EN 60664-1) |

Electrical properties

| | |
|---|------------|
| Maximum power dissipation for nominal condition | max. 1.3 W |
|---|------------|

Potentials

| | |
|-------------------|--|
| Power consumption | max. 1.3 W (at U_L and U_M , within the permissible operating temperature) |
|-------------------|--|

Potentials: Communications power (U_L)

| | |
|-------------------|--|
| Supply voltage | 7.5 V DC (via voltage jumper) |
| Current draw | max. 90 mA (all connections of the serial interface are short-circuited) typ. 78 mA |
| Power consumption | typ. 585 mW |

Potentials: Main circuit supply (U_M)

| | |
|----------------|------------------------------|
| Supply voltage | 24 V DC (via voltage jumper) |
| Current draw | max. 25 mA typ. 15 mA |

Electrical isolation/isolation of the voltage ranges

| | |
|--|------------------------|
| Test voltage: Serial interface/7.5 V supply (bus logic) | 500 V AC, 50 Hz, 1 min |
| Test voltage: Serial interface/24 V supply U_M | 500 V AC, 50 Hz, 1 min |
| Test voltage: Serial interface/functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: 7.5 V supply (bus logic)/functional ground | 500 V AC, 50 Hz, 1 min |
| Test voltage: 24 V supply (U_M)/functional ground | 500 V AC, 50 Hz, 1 min |

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Connection data

Connection technology

| | |
|-----------------|------------------|
| Connection name | Inline connector |
|-----------------|------------------|

Inline connector

| | |
|-----------------------------------|--|
| Connection method | Spring-cage connection |
| Conductor cross-section, rigid | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section, flexible | 0.08 mm ² ... 1.5 mm ² |
| Conductor cross-section AWG | 28 ... 16 |
| Stripping length | 8 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|--|---|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| Degree of protection | IP20 |
| Air pressure (operation) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Air pressure (storage/transport) | 70 kPa ... 106 kPa (up to 3000 m above sea level) |
| Ambient temperature (storage/transport) | -25 °C ... 85 °C |
| Permissible humidity (operation) | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 10 % ... 95 % (non-condensing) |

Standards and regulations

| | |
|------------------|---------------------------------------|
| Protection class | III (IEC 61140, EN 61140, VDE 0140-1) |
|------------------|---------------------------------------|

Mounting

| | |
|---------------|-------------------|
| Mounting type | DIN rail mounting |
|---------------|-------------------|

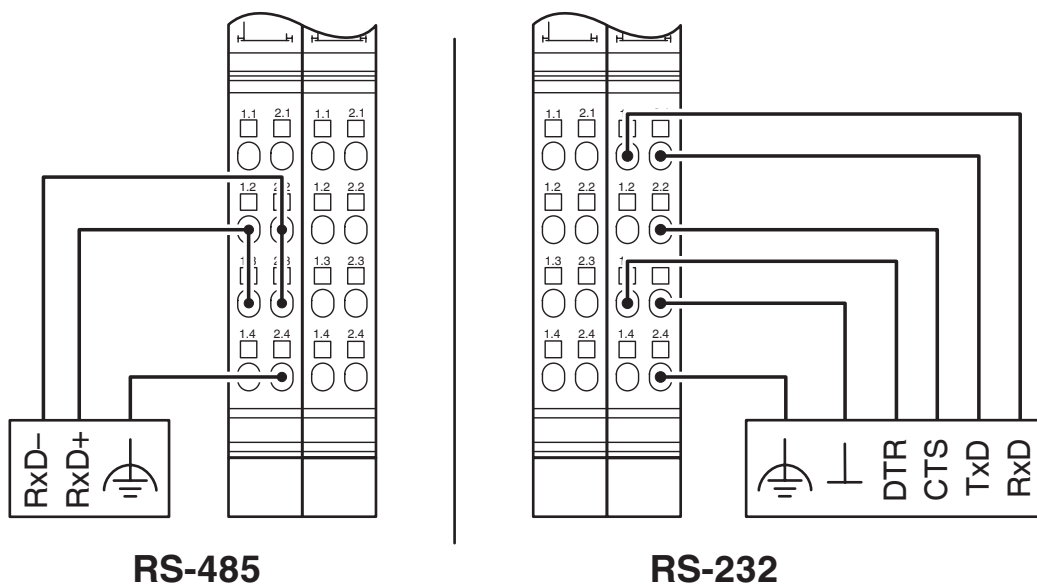
Drawings

Dimensional drawing

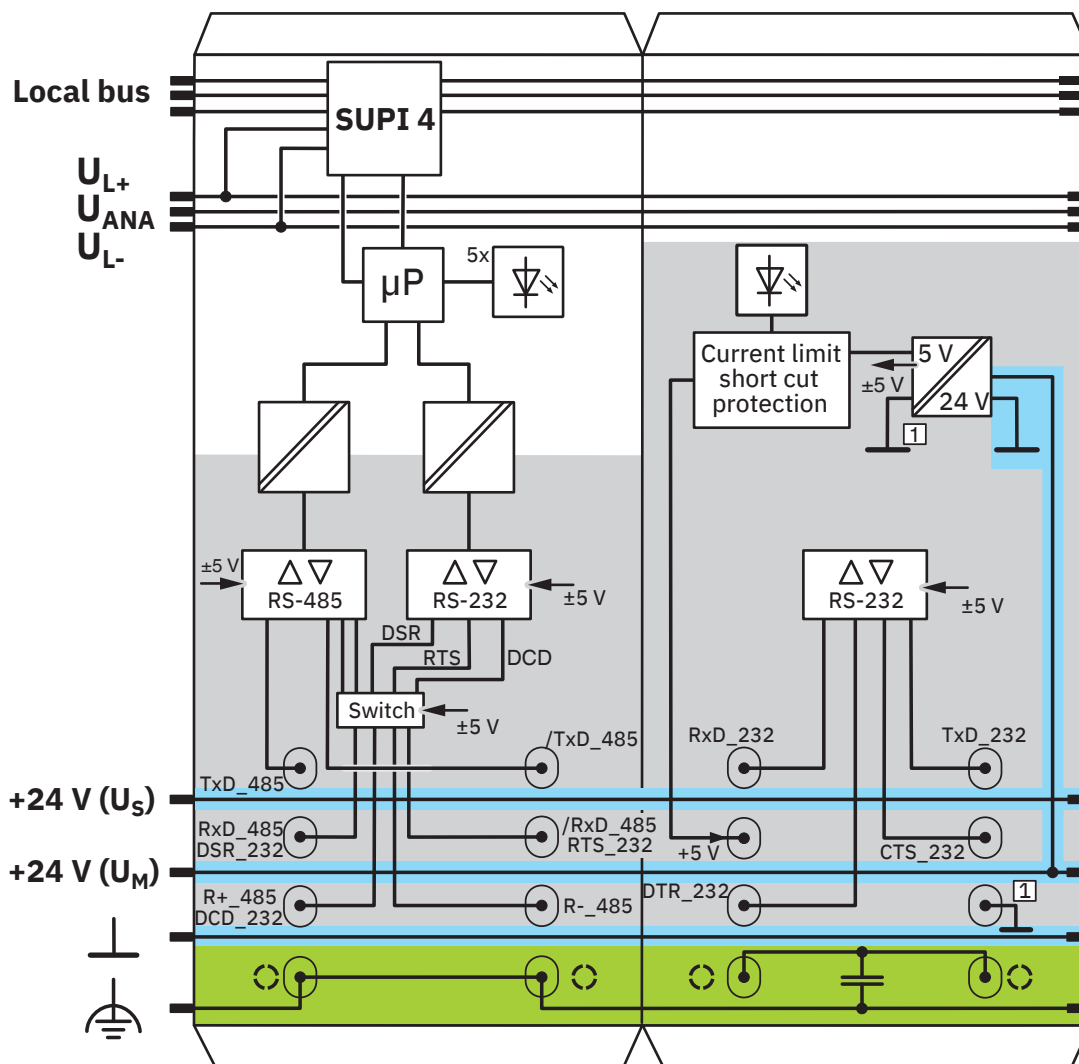


Dimensions

Connection diagram



Block diagram



Internal wiring of the terminal points

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Classifications

ECLASS

ECLASS-13.0

27242608

ETIM

ETIM 9.0

EC001604

UNSPSC

UNSPSC 21.0

32151600

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Environmental product compliance

EU RoHS

| | |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 7(a), 7(c)-I |

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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