

EM-PB-GATEWAY-IFS - Data interface



2297620

<https://www.phoenixcontact.com/us/products/2297620>

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Gateway for the connection of up to 32 Interface system devices to a higher-level controller via PROFIBUS DP. The Interface system devices are connected to the gateway via DIN rail connectors. The DIN rail connectors are provided.

Your advantages

- 8 digital inputs and 4 outputs can be freely parameterized
- Certified according to DPV1 specification (EN 50170)
- Failsafe mode supported
- Digital switching outputs for direct control of the EMM...IFS (forward/reverse running)
- Communication via TBUS with up to 31 EMM...IFS modules

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2297620 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | C477 |
| Product key | DK7721 |
| GTIN | 4046356319652 |
| Weight per piece (including packing) | 221 g |
| Weight per piece (excluding packing) | 149.61 g |
| Customs tariff number | 85176200 |
| Country of origin | DE |

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Technical data

Notes

Utilization restriction

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

Product properties

| | |
|----------------|-----------------------|
| Product type | Gateways/Proxies |
| Operating mode | 100% operating factor |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree | 2 |

Electrical properties

Supply

| | |
|------------------------------------|--|
| Nominal supply voltage | 24 V DC |
| Rated control supply current I_S | 85 mA (plus load current of the outputs) |

Input data

Digital

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

Output data

Digital: Switching outputs

| | |
|---------------------------|--|
| Number | 4 |
| 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 (Fusing with max. 8 A F-fuse) |

Connection data

Supply

| | |
|-------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |

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| | |
|----------------------------------|---|
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Input

| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Output

| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross-section rigid | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Programming connection

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

INTERFACE system

| | |
|-----------------------|------------------------|
| Connection method | DIN rail bus connector |
| Number of connections | 1 |
| Number of positions | 5 |

PROFIBUS DP

| | |
|-----------------------|-------|
| Connection method | D-SUB |
| Number of connections | 1 |
| Number of positions | 9 |

Interfaces

Data: Network interface

| | |
|------------------------|--------------------|
| Communication protocol | PROFIBUS DP |
| Connection method | D-SUB socket strip |
| Number of connections | 1 |
| Number of positions | 9 |
| Transmission speed | 12 Mbps |

Data: Service interface

| | |
|------------------------|------------------|
| Communication protocol | Interface-System |
| Connection method | S-PORT (socket) |
| Number of connections | 1 |
| Number of positions | 12 |

Data: Device bus

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| | |
|------------------------|------------------------|
| Communication protocol | Interface-System |
| Connection method | DIN rail bus connector |
| Number of connections | 1 |
| Number of positions | 5 |
| Transmission speed | 76.8 kbps |

Dimensions

| | |
|--------|----------|
| Width | 22.5 mm |
| Height | 107.8 mm |
| Depth | 113.8 mm |

Material specifications

| | |
|------------------|-----------------------------|
| Color | gray (RAL 7042) |
| Housing material | Polyamide PA non-reinforced |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -35 °C ... 50 °C |
| Ambient temperature (storage/transport) | -35 °C ... 80 °C |

Standards and regulations

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-2 |
| | EN 61000-6-4 |

Mounting

| | |
|-------------------|---------------------------|
| Mounting type | DIN rail mounting |
| Assembly note | in rows with zero spacing |
| Mounting position | any |

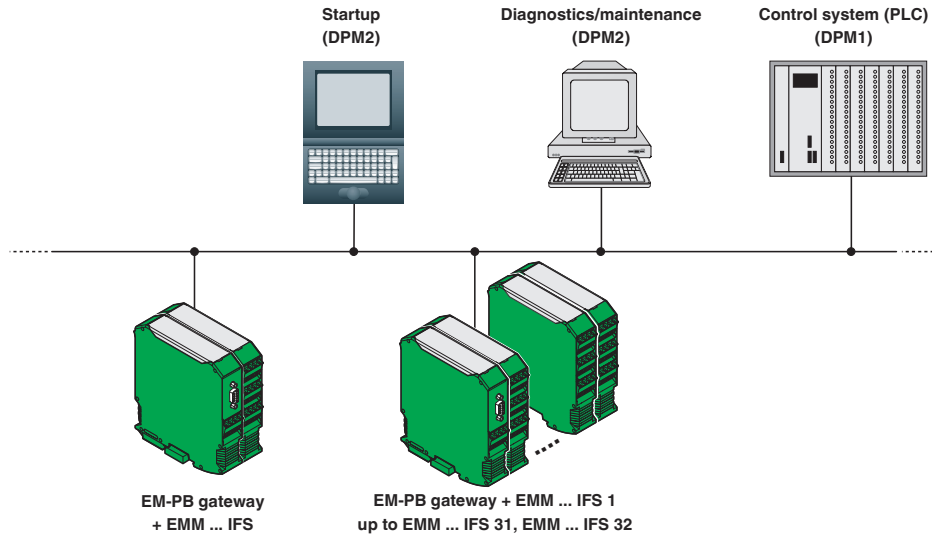
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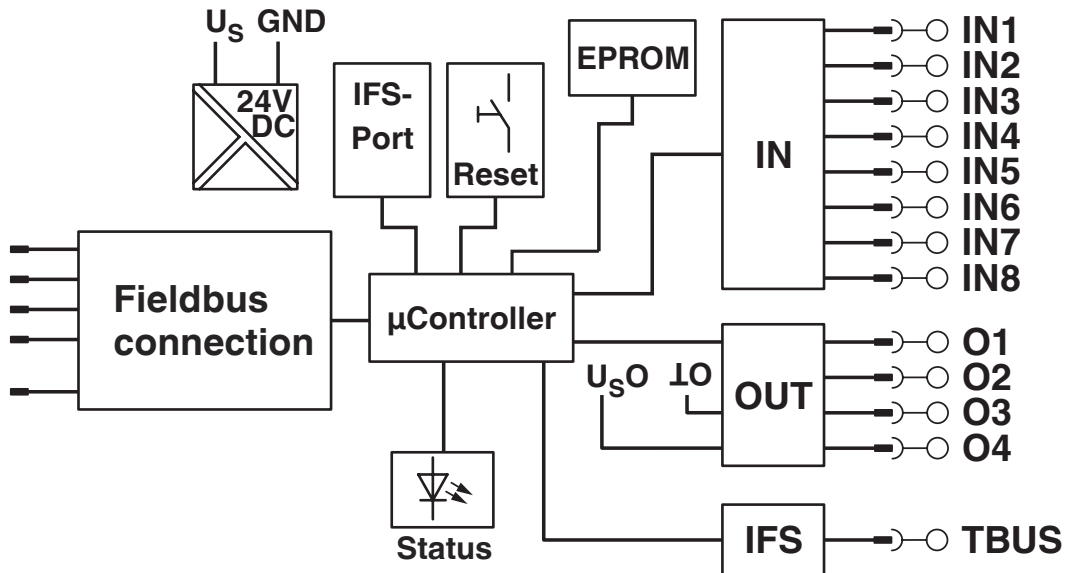
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Drawings

Application drawing



Block diagram



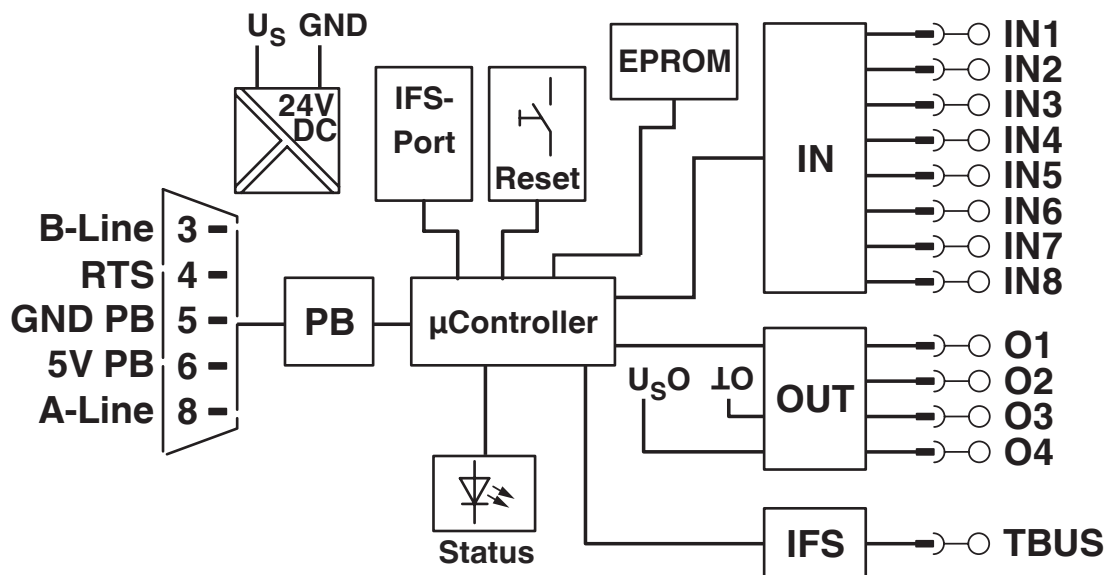
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Block diagram



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Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2297620>



EAC

Approval ID: RU C-DE.A*30.B.01082



UL Listed

Approval ID: E140324



cUL Listed

Approval ID: E140324

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27242608 |
| ECLASS-15.0 | 27242608 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001604 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 32151600 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes |
| Exemption | 6(c), 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) |
| | 2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7) |
| SCIP | 16ead3b7-7b89-48f5-9c38-1aa1fb1186f9 |

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