

FB-DP-RPTR - Repeater

2316373

<https://www.phoenixcontact.com/us/products/2316373>

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PROFIBUS DP interface/repeater module



Product description

PROFIBUS DP repeater expansion module for the PROFIBUS DP/PA coupler system

Your advantages

- No bus addressing of device required
- Automatic detection of baud rate up to 12 Mbps
- Integrated switchable terminator
- Supported protocols: DP-V0, V1, V2, FDL, MPI, FMS and Profisafe

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2316373 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN11 |
| Product key | DNC135 |
| GTIN | 4055626020495 |
| Weight per piece (including packing) | 276.5 g |
| Weight per piece (excluding packing) | 276.5 g |
| Customs tariff number | 85176200 |
| Country of origin | NL |

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Technical data

Notes

Note on application

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

Product properties

| | |
|--------------|----------------|
| Product type | Device coupler |
|--------------|----------------|

Electrical properties

Supply

| | |
|-----------------------------|------------------------|
| Supply voltage range | Supplied via backplane |
| Typical current consumption | ± 160 mA |
| Max. current consumption | 270 mA |

Connection data

Supply

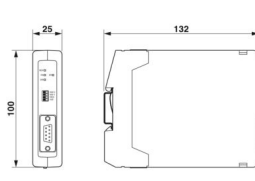
| | |
|-----------------------------------|---|
| Connection method | Bus base module |
| Conductor cross-section, flexible | 0.20 mm ² ... 2.50 mm ² |
| Conductor cross-section, rigid | 0.20 mm ² ... 2.50 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Interfaces

Data: PROFIBUS DP

| | |
|--------------------------|---|
| Transmission speed | 12 Mbps (100 m cable length) |
| | 1.5 Mbps (200 m cable length) |
| | 500 kbps (400 m cable length) |
| | 187.5 kbps (1000 m cable length) |
| Transmission speed range | 9.6 kbps ... 93.75 kbps (1200 m cable length) |
| Termination resistor | 390 Ω - 220 Ω - 390 Ω (switchable) |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 25 mm |
| Height | 100 mm |
| Depth | 132 mm |

Material specifications

| | |
|-------|-------|
| Color | green |
|-------|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|--|-------------------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -20 °C ... 60 °C |
| Altitude | 2000 m |
| Permissible humidity (operation) | 5 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing) |

Approvals

Conformity/Approvals

| | |
|------------------|-------------------|
| UL, USA / Canada | UL 508 Listed |
| UL, Canada | CSA C22.2 No. 142 |

Standards and regulations

Standards/regulations

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|-----------------------|--|
| Standards/regulations | Ring wave noise immunity in acc. with IEC 61000-4-12 |
|-----------------------|--|

Standards/regulations

| | |
|-----------------------|-----------------------------------|
| Standards/regulations | Dry heat in acc. with IEC 61131-2 |
|-----------------------|-----------------------------------|

Standards/regulations

| | |
|-----------------------|------------------------------------|
| Standards/regulations | Damp heat in acc. with IEC 61131-2 |
|-----------------------|------------------------------------|

Standards/regulations

| | |
|-----------------------|--|
| Standards/regulations | Shock and vibration in acc. with EN 61131-2 and EN 50178 |
|-----------------------|--|

PROFIBUS standardization

| | |
|-----------------------|-------------|
| Standards/regulations | IEC 61158-2 |
|-----------------------|-------------|

Mounting

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|-------------------|--|
| Mounting type | DIN rail: 35 mm |
| Mounting position | on horizontal DIN rail NS 35 in acc. with EN 60715 |

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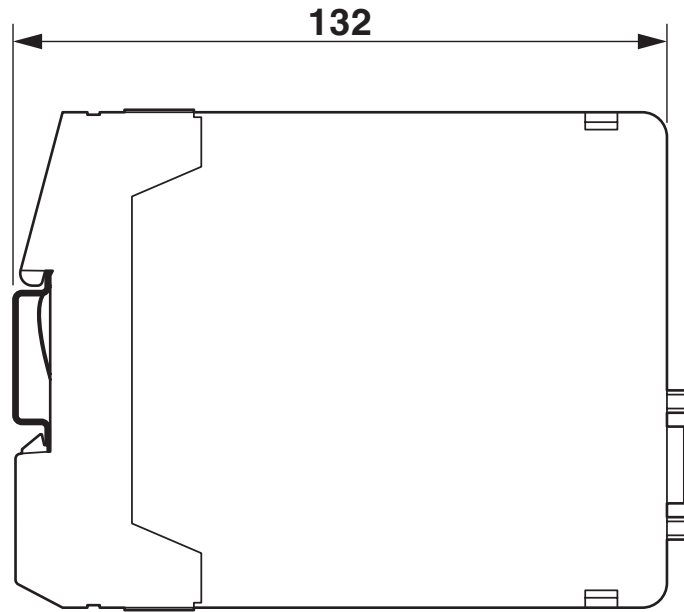
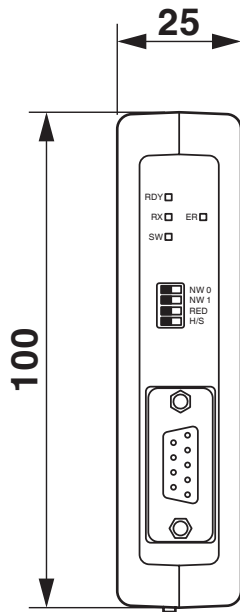
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Drawings

Dimensional drawing



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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

China RoHS

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|--|---|
| 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.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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