

# 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            |

## 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

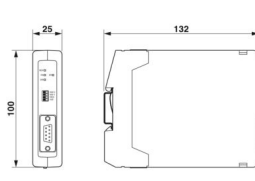
|                                   |   |
|-----------------------------------|---|
| Connection method                 | Bus base module                               |
| Conductor cross-section, flexible | 0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup> |
| Conductor cross-section, rigid    | 0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup> |
| 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

|                       |  |
|-----------------------|--|
| 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

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

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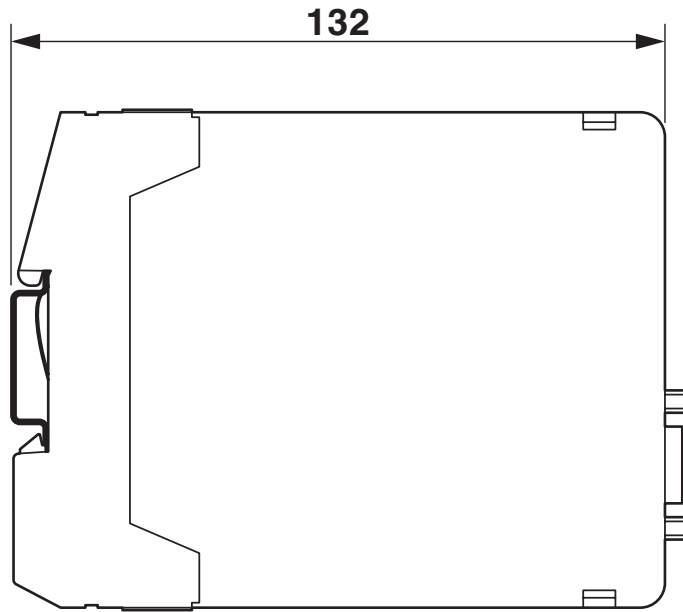
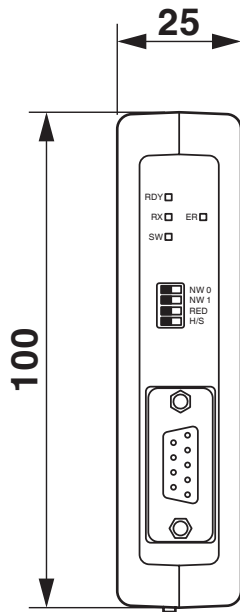
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## Drawings

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

|  |   |
|--|---|
| 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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