

# GW PN/DP 1E/1DB9 - Interface converters



1108712

<https://www.phoenixcontact.com/us/products/1108712>

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PROFINET to PROFIBUS DP gateway. Functions as a PROFIBUS DP controller on the PROFIBUS network and a PROFINET IO device on the PROFINET network. Compatible with FDT/DTM container for simple configuration of PROFIBUS DP devices.

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1108712       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | DN09          |
| Product key                          | DNC323        |
| GTIN                                 | 4063151016227 |
| Weight per piece (including packing) | 175.5 g       |
| Weight per piece (excluding packing) | 120 g         |
| Customs tariff number                | 85176200      |
| Country of origin                    | DE            |

## Technical data

### Notes

#### Note on application

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

#### Utilization restriction

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

### Product properties

|              |                     |
|--------------|---------------------|
| Product type | Interface converter |
|--------------|---------------------|

### Electrical properties

#### Supply

|                             |   |
|-----------------------------|---|
| Supply voltage range        | 10.8 V DC ... 30 V DC (via pluggable COMBICON screw terminal block) |
| Typical current consumption | 71 mA (24 V DC)   |
| Max. current consumption    | 200 mA (10.8 V DC)  |

#### Function

|                                  |   |
|----------------------------------|---|
| Management                       | Web-based management                                  |
| Status and diagnostic indicators | LEDs: ST, PB, BF, SF, ACT/LNK (Ethernet data traffic) |

### Connection data

#### Supply

|                                   |   |
|-----------------------------------|---|
| Conductor cross-section, flexible | 0.20 mm <sup>2</sup> ... 2.50 mm <sup>2</sup> |
| Conductor cross-section AWG       | 24 ... 12                                     |
| Tightening torque                 | 0.5 Nm ... 0.6 Nm                             |

### Interfaces

|        |          |
|--------|----------|
| Signal | PROFINET |
|        | PROFIBUS |

#### Data: PROFINET

|                           |                                 |
|---------------------------|---------------------------------|
| Serial transmission speed | 10/100 Mbps, auto negotiation   |
| Connection method         | RJ45 jack, shielded             |
| No. of channels           | 1                               |
| Transmission length       | ≤ 100 m (shielded twisted pair) |
| Protocols supported       | PROFINET, PROFIBUS DP           |
| Auxiliary protocols       | ARP, DHCP (Client), PING, DCP   |

#### Data: PROFIBUS DP

|                           |                      |
|---------------------------|----------------------|
| Serial transmission speed | 9.6 kbps ... 12 Mbps |
| Number of connections     | 1                    |

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|                   |              |
|-------------------|--------------|
| Connection method | D-SUB 9 plug |
|-------------------|--------------|

## Dimensions

|        |         |
|--------|---------|
| Width  | 22.5 mm |
| Height | 99 mm   |
| Depth  | 115 mm  |

## Material specifications

|                  |                       |
|------------------|-----------------------|
| Color (Housing)  | light gray (RAL 7035) |
| Housing material | PA 6.6                |

## Mechanical tests

|  |   |
|--|---|
| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : |
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27              | : |

## Environmental and real-life conditions

### Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection                     | IP20                           |
| Ambient temperature (operation)          | -40 °C ... 70 °C               |
| Ambient temperature (storage/transport)  | -40 °C ... 80 °C               |
| Altitude                                 | < 2000 m                       |
| Permissible humidity (operation)         | 10 % ... 95 % (non-condensing) |
| Permissible humidity (storage/transport) | 5 % ... 95 % (non-condensing)  |

## Approvals

### Conformity/Approvals

|             |              |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

## Mounting

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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27242208 |
| ECLASS-15.0 | 27242208 |

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 43222600 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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