

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Device terminal block, nom. voltage: 450 V, nominal current: 24 A, number of connections: 4, number of positions: 2, connection method: Push-in connection, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, mounting type: for snapping onto a DIN rail adapter, Direct mounting with flange, Free-hanging, color: gray

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1300608       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE09          |
| Product key                          | BEA281        |
| GTIN                                 | 4063151545468 |
| Weight per piece (including packing) | 6.21 g        |
| Weight per piece (excluding packing) | 6.21 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

## Technical data

### Notes

#### General

|      |  |
|------|--|
| Note | The maximum load current of a single clamping unit must not be exceeded. |
|------|--|

### Product properties

|                       |                            |
|-----------------------|----------------------------|
| Product type          | Distributor terminal block |
| Number of positions   | 2                          |
| Number of connections | 4                          |
| Number of rows        | 1                          |

#### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Maximum power dissipation for nominal condition | 0.77 W |
|---|--------|

### Connection data

|   |   |
|---|---|
| Number of connections per level                                   | 4   |
| Nominal cross section   | 2.5 mm <sup>2</sup>   |
| Connection method   | Push-in connection  |
| Stripping length  | 8 mm ... 10 mm  |
| Internal cylindrical gage   | A3<br>B3  |
| Connection in acc. with standard                                  | IEC 60998-2-2   |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Cross section AWG   | 26 ... 12 (converted acc. to IEC)   |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                      |
| Conductor cross-section, flexible [AWG]                           | 26 ... 12 (converted acc. to IEC)   |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>                                    |
| Nominal current   | 24 A  |
| Maximum load current  | 32 A (with 4 mm <sup>2</sup> conductor cross-section)                           |
| Maximum total current   | The maximum load current of the individual terminal point must not be exceeded. |
| Nominal voltage   | 450 V (in accordance with IEC 60998-2-2)  |
| Connection method   | Push-in connection  |
| Stripping length  | 8 mm ... 10 mm  |
| Connection in acc. with standard                                  | IEC 60947-7-1   |
| Nominal cross section   | 2.5 mm <sup>2</sup>   |
| Nominal voltage   | 690 V   |

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

|      |   |
|------|---|
| Note | The IEC 60947-7-1 standard applies for the use of mounting accessories. |
|------|---|

## Connection cross sections directly pluggable

|   |  |
|---|--|
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Conductor cross-section, rigid [AWG]                              | 20 ... 12 (converted acc. to IEC)            |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.75 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |

## Dimensions

|        |          |
|--------|----------|
| Width  | 10.53 mm |
| Height | 28.6 mm  |
| Depth  | 21.7 mm  |

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| Flammability rating according to UL 94                           | V0              |
| Insulating material group  | I               |
| Insulating material  | PA              |
| Static insulating material application in cold                   | -60 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R24           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R26           | HL 1 - HL 3     |
| Surface flammability NFPA 130 (ASTM E 162)                       | passed          |
| Specific optical density of smoke NFPA 130 (ASTM E 662)          | passed          |
| Smoke gas toxicity NFPA 130 (SMP 800C)                           | passed          |

## Electrical tests

### Surge voltage test

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Temperature-rise test

|  |                                |
|--|--------------------------------|
| Requirement temperature-rise test                | Increase in temperature ≤ 45 K |
| Result   | Test passed                    |
| Short-time withstand current 2.5 mm <sup>2</sup> | 0.3 kA                         |
| Result   | Test passed                    |

### Power-frequency withstand voltage

|                       |             |
|-----------------------|-------------|
| Test voltage setpoint | 1.89 kV     |
| Result                | Test passed |

## Mechanical properties

### Mechanical data

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

|                 |    |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

## Mechanical tests

### Mechanical strength

|        |             |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

### Attachment on the carrier

|                         |  |
|-------------------------|--|
| DIN rail/fixing support | NS 35  |
| Result                  | Test passed  |
| Note                    | <p>When aligning several blocks, it is recommended to either place a DIN rail adapter underneath the connection point or a flange element between the blocks.</p> <p>For versions with 6 or 7 connections, it is enough to place one DIN rail adapter centrally per block and place flange elements after every other block.</p> <p>Depending on the application case and mechanical load, other arrangements of the mounting accessory can also be chosen.</p> <p>When using the DIN rail adapter PTFIX-NS35, an aligned block must not protrude by more than a half.</p> |

### Test for conductor damage and slackening

|                                |   |
|--------------------------------|---|
| Rotation speed                 | 9 rpm   |
| Revolutions                    | 135   |
| Conductor cross-section/weight | 0.14 mm <sup>2</sup> / 0.2 kg<br>2.5 mm <sup>2</sup> / 0.7 kg<br>4 mm <sup>2</sup> / 0.9 kg |
| Result                         | Test passed   |

## Environmental and real-life conditions

### Aging

|                    |             |
|--------------------|-------------|
| Temperature cycles | 192         |
| Result             | Test passed |

### Needle-flame test

|                  |             |
|------------------|-------------|
| Time of exposure | 30 s        |
| Result           | Test passed |

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2022-06            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz      |
| Acceleration           | 3.12g  |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                              |
| Result                 | Test passed                                    |

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

## Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2018-05 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |
| Result                         | Test passed                         |

## Ambient conditions

|  |  |
|--|--|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)  |
| Ambient temperature (assembly)           | -5 °C ... 70 °C  |
| Ambient temperature (actuation)          | -5 °C ... 70 °C  |
| Permissible humidity (operation)         | 20 % ... 90 %  |
| Permissible humidity (storage/transport) | 30 % ... 70 %  |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60998-2-2 |
|                                  | IEC 60947-7-1 |

## Mounting

|               |                                      |
|---------------|--------------------------------------|
| Mounting type | for snapping onto a DIN rail adapter |
|               | Direct mounting with flange          |
|               | Free-hanging                         |

# PTVFIX 2,5/2 - Device terminal block

1300608

<https://www.phoenixcontact.com/us/products/1300608>



## Drawings

Circuit diagram



# PTVFIX 2,5/2 - Device terminal block




1300608

<https://www.phoenixcontact.com/us/products/1300608>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1300608>

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B   | 300 V                 | 20 A                  | 26 - 12           | -                           |
| C   | 300 V                 | 20 A                  | 26 - 12           | -                           |
| D   | 600 V                 | 5 A                   | 26 - 12           | -                           |

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  | 300 V                 | 20 A                  | 26 - 12           | -                           |
| C  | 300 V                 | 20 A                  | 26 - 12           | -                           |
| F  | 500 V                 | 20 A                  | 26 - 12           | -                           |
| D  | 600 V                 | 5 A                   | 26 - 12           | -                           |

| <b>DNV</b><br>Approval ID: TAE0004R4 |  |  |  |  |
|--------------------------------------|--|--|--|--|
|--------------------------------------|--|--|--|--|

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250118 |
| ECLASS-15.0 | 27250118 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

# PTVFIX 2,5/2 - Device terminal block



1300608

<https://www.phoenixcontact.com/us/products/1300608>

## 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% |
|-------------------------------------|----------------------------|

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)