

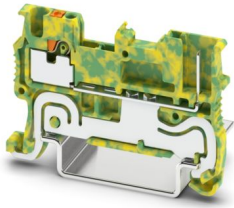
# PT 1,5/S/1P-PE - Protective conductor terminal block



3212332

<https://www.phoenixcontact.com/us/products/3212332>

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Protective conductor terminal block, number of connections: 2, connection method: Push-in / plug connection, 1 level, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green-yellow

## Your advantages

- The compact design and front connection enable wiring in a confined space
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- Tested for railway applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3212332       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2242        |
| GTIN                                 | 4046356565370 |
| Weight per piece (including packing) | 4.654 g       |
| Weight per piece (excluding packing) | 4.654 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | PT                    |
| Area of application   | Railway industry      |
|                       | Machine building      |
|                       | Plant engineering     |
| Number of connections | 2                     |
| Number of rows        | 1                     |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Grounding foot                  | Yes                 |
| Number of connections per level | 2                   |
| Nominal cross section           | 1.5 mm <sup>2</sup> |

#### 1 level

|   |  |
|---|--|
| Connection method   | Push-in / plug connection  |
| Note  | Please observe the current carrying capacity of the DIN rails.   |
| Stripping length  | 8 mm ... 10 mm   |
| Internal cylindrical gage   | A1 / B1  |
| Connection in acc. with standard                                  | IEC 61984  |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Cross section AWG   | 26 ... 16 (converted acc. to IEC)  |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)  |
| Conductor cross-section flexible ultrasound-compressed            | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG] ultrasound-compressed     | 22 ... 16 (converted acc. to IEC)  |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended) |

#### 1 level Connection cross sections directly pluggable

|   |  |
|---|--|
| Conductor cross-section rigid                                     | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.34 mm <sup>2</sup> ... 1 mm <sup>2</sup>   |

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## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 3.5 mm  |
| End cover width    | 2.2 mm  |
| Height             | 46 mm   |
| Depth on NS 35/7,5 | 32 mm   |
| Depth on NS 35/15  | 39.5 mm |

## Material specifications

|   |              |
|---|--------------|
| Color   | green-yellow |
| Flammability rating according to UL 94                                  | V0           |
| Insulating material group   | I            |
| Insulating material   | PA           |
| Static insulating material application in cold                          | -60 °C       |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °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  |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg     |
| 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       |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |  |
|------------------------|--|
| Specification          | DIN EN 50155 (VDE 0115-200):2008-03              |
| Spectrum               | Long life test category 1, class B, body mounted |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$   |
| ASD level              | $1.857 \text{ (m/s}^2\text{)}^2\text{/Hz}$       |
| Acceleration           | 0.8g   |
| Test duration per axis | 5 h  |
| Test directions        | X-, Y- and Z-axis                                |
| Result                 | Test passed                                      |

### Shocks

|               |                                     |
|---------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape   | Half-sine                           |

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|                                |                                   |
|--------------------------------|-----------------------------------|
| Acceleration                   | 5g                                |
| Shock duration                 | 30 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 ... 100 °C (max. operating temperature range including self-heating, see derating curve) |
| 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 61984 |
|----------------------------------|-----------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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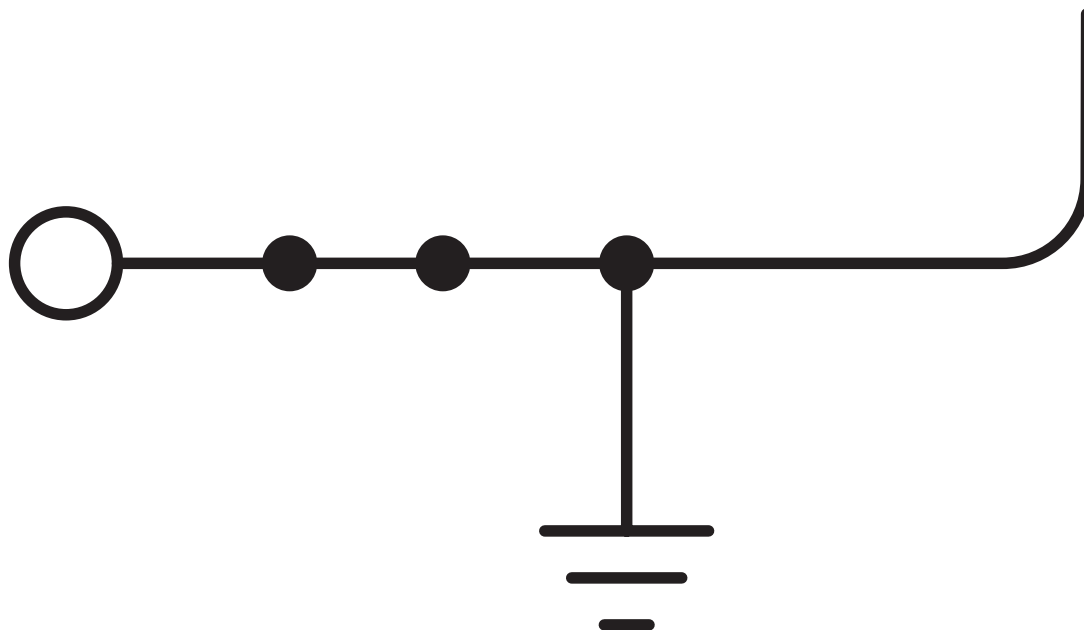


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## Drawings

Circuit diagram



# PT 1,5/S/1P-PE - Protective conductor terminal block




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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3212332>

|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                      |
|---|-----------------------|-----------------------|-------------------|----------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine   |                       |                       |                   |                      |
|   | -                     | -                     | 26 - 14           | -                    |


|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-65179 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| keine  |                       |                       |                   |                      |
|  | 500 V                 | -                     | -                 | -                    |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| B  |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 14           | -                    |
| C  |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 14           | -                    |
| D  |                       |                       |                   |                      |
|  | -                     | -                     | 26 - 14           | -                    |

|  <b>LR</b><br>Approval ID: LR2371832TA |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>NK</b><br>Approval ID: 14ME0912 |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

|  <b>BV</b><br>Approval ID: 39979/B0 BV |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>VDE Gutachten mit Fertigungsüberwachung</b><br>Approval ID: 40034766 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

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|       | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine |                       |                       |                   |                             |
|       | 500 V                 | -                     | -                 | -                           |



**EAC**

Approval ID: KZ7500651131219505

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250103 |
| ECLASS-15.0 | 27250103 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000901 |
|-----------|----------|

### UNSPSC

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

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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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