

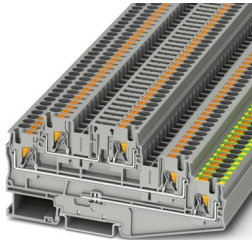
# PT 4-PE/L/TG - Disconnect terminal block



3002618

<https://www.phoenixcontact.com/us/products/3002618>

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Disconnect terminal block, Current and voltage are determined by the plug used., nom. voltage: 500 V, nominal current: 30 A, number of connections: 5, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, connection method: Push-in connection, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Convenient plugging with lower insertion force
- High conductor pull-out forces due to the spring design
- Vibration-resistant and maintenance-free conductor connection
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Individual and easy assembly with isolating plug, fuse plug, component connector, and feed-through connector
- Optimized for manual and automated wiring
- Meet the requirements of DIN EN 60947-7-2 or IEC 60947-7-2 for protective conductor connections

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3002618       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2232        |
| GTIN                                 | 4055626370316 |
| Weight per piece (including packing) | 29.364 g      |
| Weight per piece (excluding packing) | 29.364 g      |
| Customs tariff number                | 85369010      |
| Country of origin                    | IN            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| Product family        | PT                    |
| Number of connections | 5                     |
| Number of rows        | 3                     |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.02 W |

### Connection data

|                                 |                   |
|---------------------------------|-------------------|
| Grounding foot                  | Yes               |
| Number of connections per level | 2                 |
| Nominal cross section           | 4 mm <sup>2</sup> |

#### Level 1

|   |  |
|---|--|
| Connection method   | Push-in connection   |
| Stripping length  | 10 mm ... 12 mm  |
| Internal cylindrical gage   | A4   |
| Connection in acc. with standard  | IEC 60947-7-2  |
| Conductor cross-section rigid   | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Cross section AWG   | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>                    |
| Conductor cross-section, flexible [AWG]   | 24 ... 10 (converted acc. to IEC)                            |
| Conductor cross-section flexible ultrasound-compressed                                    | 0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>                   |
| Conductor cross-section, flexible [AWG] ultrasound-compressed                             | 22 ... 10 (converted acc. to IEC)                            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>                   |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup>                   |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>                    |
| Nominal cross section   | 4 mm <sup>2</sup>  |
| Nominal current   | 30 A   |
| Maximum load current  | 32 A (with 6 mm <sup>2</sup> conductor cross-section, rigid) |
| Nominal voltage   | 500 V  |

#### Level 2

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection                        |
| Connection in acc. with standard | IEC 60947-7-2                             |
| Conductor cross-section rigid    | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup> |

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|   |  |
|---|--|
| Cross section AWG   | 24 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible  | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>  |
| Conductor cross-section, flexible [AWG]   | 24 ... 10 (converted acc. to IEC)          |
| Conductor cross-section flexible (ferrule without plastic sleeve)   | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)  | 0.25 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve                         | 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup>  |
| Nominal cross section   | 4 mm <sup>2</sup>                          |
| Nominal current   | 20 A                                       |
| Maximum load current  | 20 A                                       |
| Nominal voltage   | 500 V                                      |

## Level 1 Connection cross sections directly pluggable

|   |   |
|---|---|
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross-section, rigid [AWG]                              | 20 ... 10 (converted acc. to IEC)         |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |

## Level 2 Connection cross sections directly pluggable

|   |   |
|---|---|
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Conductor cross-section, rigid [AWG]                              | 20 ... 10 (converted acc. to IEC)         |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |

## Ex data

### Rated data (ATEX/IECEx)

|  |                                     |
|--|-------------------------------------|
| Identification                                     | ⊕ II 3 G Ex ec IIC Gc               |
| Operating temperature range                        | -60 °C ... 125 °C                   |
| Ex-certified accessories                           | 3002619 D-PT 4-PE/L/HESI            |
|  | 1204517 SZF 1-0,6X3,5               |
|  | 3036783 P-DI                        |
|  | 3022276 CLIPFIX 35-5                |
|  | 3022218 CLIPFIX 35                  |
| List of bridges                                    | Plug-in bridge / FBS 2-6 / 3030336  |
|  | Plug-in bridge / FBS 3-6 / 3030242  |
|  | Plug-in bridge / FBS 4-6 / 3030255  |
|  | Plug-in bridge / FBS 5-6 / 3030349  |
|  | Plug-in bridge / FBS 10-6 / 3030271 |
|  | Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data  | 6.3 A / 4 mm <sup>2</sup>           |
| for bridging with bridge                           | 275 V                               |
| - At bridging between non-adjacent terminal blocks | 275 V                               |
| - At cut-to-length bridging with cover             | 275 V                               |

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|                          |             |
|--------------------------|-------------|
| Rated insulation voltage | 250 V       |
| output                   | (Permanent) |

## Ex level General

|               |       |
|---------------|-------|
| Rated voltage | 275 V |
|---------------|-------|

## Ex connection data General

|                              |   |
|------------------------------|---|
| Nominal cross section        | 4 mm <sup>2</sup>                         |
| Rated cross section AWG      | 12  |
| Connection capacity rigid    | 0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 10                                 |
| Connection capacity flexible | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Connection capacity AWG      | 24 ... 12                                 |
| output                       | (Permanent)                               |

## Ex level Level 2

|                      |                                |
|----------------------|--------------------------------|
| Rated current        | 29 A (4 mm <sup>2</sup> )      |
| Maximum load current | 32 A (6 mm <sup>2</sup> )      |
| Contact resistance   | 0.9 mΩ                         |
| Temperature increase | 40 K (29 A/4 mm <sup>2</sup> ) |
| output               | (Permanent)                    |

## Ex level Level 3

|                      |                                |
|----------------------|--------------------------------|
| Rated current        | 20 A (4 mm <sup>2</sup> )      |
| Maximum load current | 20 A (6 mm <sup>2</sup> )      |
| Contact resistance   | 1.7 mΩ                         |
| Temperature increase | 35 K (20 A/4 mm <sup>2</sup> ) |

## Dimensions

|                    |          |
|--------------------|----------|
| Width              | 6.2 mm   |
| Height             | 119.5 mm |
| Depth              | 54.5 mm  |
| Depth on NS 35/7,5 | 56 mm    |
| Depth on NS 35/15  | 63.5 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          |
| 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     |

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|   |             |
|---|-------------|
| 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              | 0.964 (m/s <sup>2</sup> )/Hz                     |
| Acceleration           | 0.58g  |
| 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                           |
| 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 ... 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 60947-7-2 |
|                                  | IEC 60947-7-2 |

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## Mounting

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

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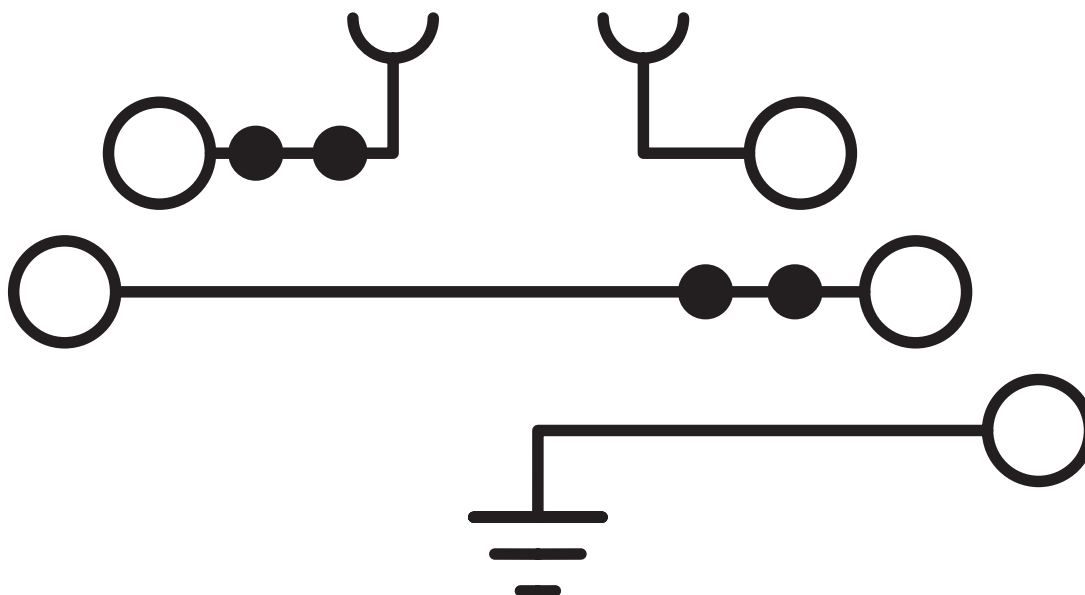


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## Drawings

Circuit diagram



# PT 4-PE/L/TG - Disconnect terminal block




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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3002618>


 **CSA**  
Approval ID: 158887


 **EAC**  
Approval ID: RU C-DE.BL08.B.00644

 **CSA**  
Approval ID: 13631


 **UL Recognized**  
Approval ID: FILE E 192998

|             | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|-------------|-----------------------|-----------------------|-------------------|-----------------------------|
| keine       |                       |                       |                   |                             |
| upper level | 275 V                 | 16 A                  | 24 - 10           | -                           |
| lower level | 275 V                 | 20 A                  | 24 - 10           | -                           |

 **IECEx**  
Approval ID: IECExKIWA17.0025U

 **ATEX**  
Approval ID: KIWA17ATEX0045U

 **UKCA-EX**  
Approval ID: CSAE 21UKEX3605U

 **CCC**  
Approval ID: 2020322313000626

 **EAC Ex**  
Approval ID: KZ 7500525010101950

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250104 |
| ECLASS-15.0 | 27250104 |

### 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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