

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

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.



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 2, number of positions: 1, connection method: Push-in connection, Rated cross section: 2.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: green

## Your advantages

- 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
- The compact design and front connection enable wiring in a confined space<br/>
- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3209513       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2211        |
| GTIN                                 | 4046356681810 |
| Weight per piece (including packing) | 6.402 g       |
| Weight per piece (excluding packing) | 5.905 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | DE            |

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

## Technical data

### Product properties

|                       |                             |
|-----------------------|-----------------------------|
| Product type          | Feed-through terminal block |
| Area of application   | Railway industry            |
|                       | Machine building            |
|                       | Plant engineering           |
|                       | Process industry            |
| Number of positions   | 1                           |
| Number of connections | 2                           |
| Number of rows        | 1                           |
| Potentials            | 1                           |

### Data management status

|                  |    |
|------------------|----|
| Article revision | 17 |
|------------------|----|

### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                                                                           |                                                              |
|-------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| Number of connections per level                                                           | 2                                                            |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                          |
| Stripping length                                                                          | 8 mm ... 10 mm                                               |
| Internal cylindrical gage                                                                 | A3                                                           |
| Connection in acc. with standard                                                          | IEC 60947-7-1                                                |
| 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>                 |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                          |
| Nominal current                                                                           | 24 A (at 2.5 mm <sup>2</sup> )                               |
| Maximum load current                                                                      | 30 A (with 4 mm <sup>2</sup> conductor cross section, rigid) |
| Nominal voltage                                                                           | 800 V                                                        |
| Nominal cross section                                                                     | 2.5 mm <sup>2</sup>                                          |

### Connection cross sections directly pluggable

|                               |                                            |
|-------------------------------|--------------------------------------------|
| Conductor cross section rigid | 0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
|-------------------------------|--------------------------------------------|

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

|                                                                   |                      |
|-------------------------------------------------------------------|----------------------|
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 2.5 mm²  |
| Flexible conductor cross section (ferrule with plastic sleeve)    | 0.34 mm² ... 2.5 mm² |

## Ex data

### Rated data (ATEX/IECEx)

|                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| Identification                                     | Ex II 2 G Ex eb IIC Gb              |
| Operating temperature range                        | -60 °C ... 110 °C                   |
| Ex-certified accessories                           | 3030417 D-ST 2,5                    |
|                                                    | 3030721 ATP-ST 4                    |
|                                                    | 1204517 SZF 1-0,6X3,5               |
|                                                    | 3022276 CLIPFIX 35-5                |
|                                                    | 3022218 CLIPFIX 35                  |
| List of bridges                                    | Plug-in bridge / FBS 2-5 / 3030161  |
|                                                    | Plug-in bridge / FBS 3-5 / 3030174  |
|                                                    | Plug-in bridge / FBS 4-5 / 3030187  |
|                                                    | Plug-in bridge / FBS 5-5 / 3030190  |
|                                                    | Plug-in bridge / FBS 10-5 / 3030213 |
|                                                    | Plug-in bridge / FBS 20-5 / 3030226 |
|                                                    | Plug-in bridge / FBS 50-5 / 3038930 |
| Bridge data                                        | 19 A / 2.5 mm²                      |
| Ex temperature increase                            | 40 K (19 A / 2.5 mm²)               |
| Rated voltage                                      | 550 V                               |
| for bridging with bridge                           | 550 V                               |
| - At bridging between non-adjacent terminal blocks | 352 V                               |
| - At cut-to-length bridging                        | 220 V                               |
| - At cut-to-length bridging with cover             | 275 V                               |
| - At cut-to-length bridging with partition plate   | 550 V                               |
| Rated insulation voltage                           | 500 V                               |
| output                                             | (Permanent)                         |

### Ex level General

|                      |         |
|----------------------|---------|
| Rated current        | 19 A    |
| Maximum load current | 23 A    |
| Contact resistance   | 0.93 mΩ |

### Ex connection data General

|                              |                      |
|------------------------------|----------------------|
| Nominal cross section        | 2.5 mm²              |
| Rated cross section AWG      | 14                   |
| Connection capacity rigid    | 0.14 mm² ... 4 mm²   |
| Connection capacity AWG      | 26 ... 12            |
| Connection capacity flexible | 0.14 mm² ... 2.5 mm² |
| Connection capacity AWG      | 26 ... 14            |

## Dimensions

|       |        |
|-------|--------|
| Width | 5.2 mm |
|-------|--------|

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

|                    |         |
|--------------------|---------|
| End cover width    | 2.2 mm  |
| Height             | 48.5 mm |
| Depth              | 35.3 mm |
| Depth on NS 35/7,5 | 36.8 mm |
| Depth on NS 35/15  | 44.3 mm |

## Material specifications

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| Color                                                            | green (RAL 6021) |
| 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           |

## Mechanical properties

### Mechanical data

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

## Environmental and real-life conditions

### 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, no longer than 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 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |
| Thread type   | ()        |

# PT 2,5 GN - Feed-through terminal block

3209513

<https://www.phoenixcontact.com/us/products/3209513>



## Drawings

Circuit diagram



# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3209513>

|                                                                                                                      |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| Use group B                                                                                                          | 600 V                 | 20 A                  | 26 - 12           | -                           |
|                                                                                                                      |                       |                       |                   |                             |
| Use group C                                                                                                          | 600 V                 | 20 A                  | 26 - 12           | -                           |
|                                                                                                                      |                       |                       |                   |                             |

|                                                                                                                                    |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-66980 |                       |                       |                   |                             |
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                    | 800 V                 | 24 A                  | -                 | 0.2 - 2.5                   |

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <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 $\text{mm}^2$ |
| Use group B                                                                                                                        | 600 V                 | 20 A                  | 26 - 12           | -                           |
|                                                                                                                                    |                       |                       |                   |                             |
| Use group C                                                                                                                        | 600 V                 | 20 A                  | 26 - 12           | -                           |
|                                                                                                                                    |                       |                       |                   |                             |
| Use group F                                                                                                                        | 800 V                 | 20 A                  | 26 - 12           | -                           |
|                                                                                                                                    |                       |                       |                   |                             |

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

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

|                                                                                                                                            |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40032222 |                       |                       |                   |                             |
|                                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|                                                                                                                                            | 800 V                 | 24 A                  | -                 | 0.2 - 2.5                   |

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

## ABS

Approval ID: 21-2192245-PDA

## DNV

Approval ID: TAE000010T



## cUL Recognized

Approval ID: E192998

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 550 V                 | 20 A                  | 26 - 12           | -                           |



## EAC Ex

Approval ID: RU C-DE.AB72.B.02351



## IECEx

Approval ID: IECExPTB10.0021U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Only flexible conductors | 550 V                 | 19 A                  | -                 | 0.14 - 2.5                  |
| Only rigid conductors    | 550 V                 | 23 A                  | -                 | 0.14 - 4                    |



## UL Recognized

Approval ID: E192998

|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | 550 V                 | 20 A                  | 26 - 12           | -                           |



## ATEX

Approval ID: PTB09ATEX1111U

|                          | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
|--------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Only flexible conductors | 550 V                 | 19 A                  | -                 | 0.14 - 2.5                  |
| Only rigid conductors    | 550 V                 | 23 A                  | -                 | 0.14 - 4                    |



## CCC

Approval ID: 2020322313000631



## UKCA-EX

Approval ID: CSAE 22UKEX1096U

# PT 2,5 GN - Feed-through terminal block

3209513

<https://www.phoenixcontact.com/us/products/3209513>



cULus Recognized

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27141120 |
| ECLASS-13.0 | 27250101 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

### UNSPSC

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

# PT 2,5 GN - Feed-through terminal block



3209513

<https://www.phoenixcontact.com/us/products/3209513>

## 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 2024 © - 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)