

# MPT 1,5/S-PE - Mini protective conductor terminal block



3248110

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Mini protective conductor terminal block, number of connections: 2, connection method: Push-in connection, 1 level, cross section:  $0.14 \text{ mm}^2 - 1.5 \text{ mm}^2$ , mounting type: NS 15, color: green-yellow

## Your advantages

- Significant space savings with the compact design
- Increased flexibility with single function shafts
- Clear arrangement with marking grooves on each individual terminal point
- Time-saving conductor connection with tool-free and maintenance-free Push-in connection technology
- Testing options for all common test probes

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3248110       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2261        |
| GTIN                                 | 4046356768672 |
| Weight per piece (including packing) | 3.904 g       |
| Weight per piece (excluding packing) | 3.856 g       |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                       |
|-----------------------|-----------------------|
| Product type          | Ground terminal block |
| 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

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

#### 1 level

|                                                                   |                                                                |
|-------------------------------------------------------------------|----------------------------------------------------------------|
| Connection method                                                 | Push-in 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 60947-7-2                                                  |
| 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 (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>                     |

#### 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>   |

### Ex data

#### Rated data (ATEX/IECEx)

|                             |                        |
|-----------------------------|------------------------|
| Identification              | Ⓔ II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C      |

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|                          |                       |
|--------------------------|-----------------------|
| Ex-certified accessories | 3248120 D-MPT 1,5/S   |
|                          | 1204504 SZF 0-0,4X2,5 |
|                          | 3022263 CLIPFIX 15    |
| output                   | (Permanent)           |

## Ex connection data General

|                              |                                              |
|------------------------------|----------------------------------------------|
| Nominal cross section        | 1.5 mm <sup>2</sup>                          |
| Rated cross section AWG      | 16                                           |
| Connection capacity rigid    | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 16                                    |
| Connection capacity flexible | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Connection capacity AWG      | 26 ... 16                                    |

## Dimensions

|                 |          |
|-----------------|----------|
| Width           | 3.5 mm   |
| End cover width | 2.2 mm   |
| Height          | 33.55 mm |
| Depth on NS 15  | 28.1 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 |
|---------------|-------------------------------------|

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|                        |                                                |
|------------------------|------------------------------------------------|
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g                                          |
| 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                   | 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 60947-7-2 |
|----------------------------------|---------------|

## Mounting

|               |       |
|---------------|-------|
| Mounting type | NS 15 |
|---------------|-------|

# MPT 1,5/S-PE - Mini protective conductor terminal block

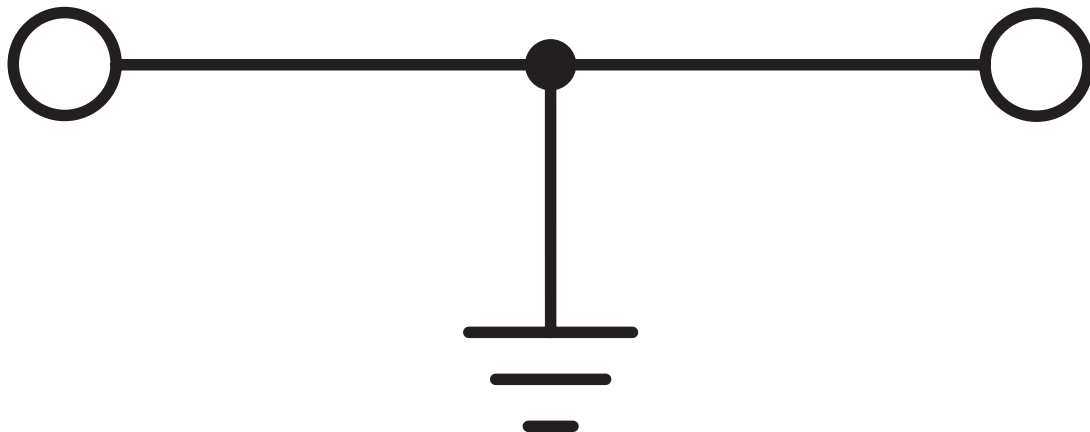


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## Drawings

Circuit diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3248110>

|  <b>CSA</b><br>Approval ID: 2030668 |                       |                       |                   |                             |
|----------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                      | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                | -                     | -                     | 26 - 14           | -                           |

|  <b>IECEE CB Scheme</b><br>Approval ID: DE1-65780 |                       |                       |                   |                             |
|------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                    | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                              | -                     | -                     | -                 | 0.14 - 1.5                  |

|                                                                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <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 $\text{mm}^2$ |
| B                                                                                                                                  | -                     | -                     | 26 - 14           | -                           |
| C                                                                                                                                  | -                     | -                     | 26 - 14           | -                           |
| D                                                                                                                                  | -                     | -                     | 26 - 14           | -                           |

|  <b>VDE Zeichengenehmigung</b><br>Approval ID: 40040313 |                       |                       |                   |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                                            | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine                                                                                                                                      | -                     | -                     | -                 | 0.14 - 1.5                  |

|                                       |  |  |  |  |
|---------------------------------------|--|--|--|--|
| <b>DNV</b><br>Approval ID: TAE00003J4 |  |  |  |  |
|---------------------------------------|--|--|--|--|

|                                                                                                                                    |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  <b>IECEx</b><br>Approval ID: IECEx SEV14.0010U |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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|       |                                                                                                                              |                                |                   |                               |
|-------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------|-------------------------------|
| keine |  <b>ATEX</b><br>Approval ID: SEV14ATEX0140U |                                |                   |                               |
|       | Nominal voltage U <sub>N</sub>                                                                                               | Nominal current I <sub>N</sub> | Cross section AWG | Cross section mm <sup>2</sup> |
|       | -                                                                                                                            | -                              | -                 | 0.14 - 1.5                    |

|                                                                                                                               |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|
|  <b>CCC</b><br>Approval ID: 2020322313000629 |  |
|-------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                                                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|
|  <b>UKCA-EX</b><br>Approval ID: CML 22UKEX1228U |  |
|----------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                                                                   |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|
|  <b>IECEx</b><br>Approval ID: IECEx SEV14.0010U |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                                                                       |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|
|  <b>EAC Ex</b><br>Approval ID: KZ 7500525010101950 |  |
|---------------------------------------------------------------------------------------------------------------------------------------|--|

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## Classifications

### ECLASS

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

### ETIM

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