# 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 mm$^2$ - 1.5 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 mm² |

### 1 level

| | |
|---|---|
| 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 mm² ... 1.5 mm² |
| Cross section AWG | 26 ... 16 (converted acc. to IEC) |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section, flexible [AWG] | 26 ... 16 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm² ... 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm² ... 1 mm² |

### 1 level Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section rigid | 0.25 mm² ... 1.5 mm² |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm² ... 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm² ... 1 mm² |

## Ex data

### Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| | 3248120 D-MPT 1,5/S |



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| | |
|---|---|
| Ex-certified accessories | 1204504 SZF 0-0,4X2,5 |
| | 3022263 CLIPFIX 15 |
| output | (Permanent) |

Ex connection data General

| | |
|---|---|
| Nominal cross section | 1.5 mm² |
| Rated cross section AWG | 16 |
| Connection capacity rigid | 0.14 mm² ... 1.5 mm² |
| Connection capacity AWG | 26 ... 16 |
| Connection capacity flexible | 0.14 mm² ... 1.5 mm² |
| 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 |
| Spectrum | Long life test category 2, bogie-mounted |



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| | |
|---|---|
| Frequency | $f_1$ = 5 Hz to $f_2$ = 250 Hz |
| ASD level | 6.12 (m/s²)²/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

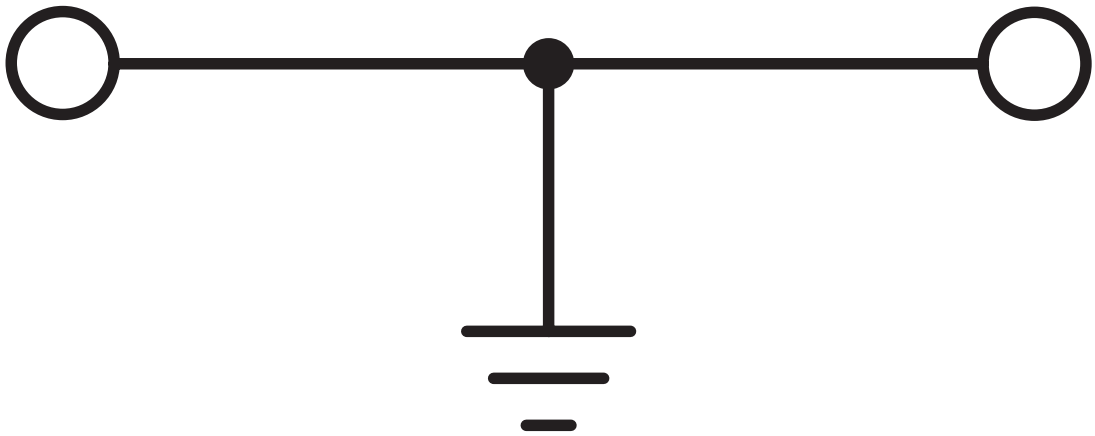
| | |
|---|---|
| Mounting type | NS 15 |



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## Drawings

Circuit diagram





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## Approvals

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**CSA**
Approval ID: 2030668

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | - | - | 26 - 14 | - |

**IECEE CB Scheme**
Approval ID: DE1-65780

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | - | - | - | 0.14 - 1.5 |

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

**cULus Recognized**
Approval ID: E60425

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| Use group B | | | | |
| | - | - | 26 - 14 | - |
| Use group C | | | | |
| | - | - | 26 - 14 | - |
| Use group D | | | | |
| | - | - | 26 - 14 | - |

**VDE Zeichengenehmigung**
Approval ID: 40040313

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | - | - | - | 0.14 - 1.5 |

**DNV**
Approval ID: TAE00003J4

**IECEx**
Approval ID: IECEx SEV14.0010U

**ATEX**
Approval ID: SEV14ATEX0140U




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| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| | - | - | - | 0.14 - 1.5 |

**CCC**
Approval ID: 2020322313000629

**UKCA-EX**
Approval ID: CML 22UKEX1228U

**IECEx**
Approval ID: IECEx SEV14.0010U

**EAC Ex**
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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com



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