# PT 4-PE/L/HESILED 250 (5X20) - Fuse modular terminal block

3002605

https://www.phoenixcontact.com/us/products/3002605

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 250 V, nominal current: 6.3 A, connection method: Push-in connection, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, connection method: Push-in connection, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- Easy and tool-free direct plug-in thanks to push-in multi-conductor connection

## Commercial data

| | |
|---|---|
| Item number | 3002605 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2236 |
| GTIN | 4055626370200 |
| Weight per piece (including packing) | 34.174 g |
| Weight per piece (excluding packing) | 31.8 g |
| Customs tariff number | 85369095 |
| Country of origin | CN |

# Technical data

## Notes

| | |
|---|---|
| General | The current is determined by the fuse used, the voltage by the selected LED.<br>If the fuse is faulty, the downstream circuit will not be disconnected. |

### General

| | |
|---|---|
| Note | The current is determined by the fuse used, the voltage by the fuse or selected light indicator. |

## Product properties

| | |
|---|---|
| Product type | Fuse terminal block |
| Number of connections | 5 |
| Number of rows | 3 |
| Potentials | 3 |

### Insulation characteristics

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

## Electrical properties

| | |
|---|---|
| Fuse type | Glass / ceramics / ... |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |
| Fuse | G / 5 x 20 |
| LED voltage range | 110 V AC/DC ... 250 V AC/DC |
| LED current range | 0.41 mA ... 0.96 mA |
| Maximum power dissipation | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload) |
| | max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload) |
| | max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit) |
| | max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

## Input data

| | |
|---|---|
| LED voltage range | 110 V AC/DC ... 250 V AC/DC |

## Connection data

| | |
|---|---|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm² |

### Level 1+2

| | |
|---|---|
| Connection method | Push-in connection |

| | |
|---|---|
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (with 6 mm² conductor cross-section, rigid) |
| Nominal voltage | 250 V |
| Nominal cross section | 4 mm² |

Level 3

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 4 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |

Level 1+2 Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

Level 3 Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | Ⓔx II 3 G Ex ec IIC Gc |
| Operating temperature range | -60 °C ... 130 °C |
| Ex-certified accessories | 3002619 D-PT 4-PE/L/HESI |
| | 1205066 SZS 1,0X4,0 VDE |
| | 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 | 19 A / 4 mm² |
| for bridging with bridge | 275 V |
| - At bridging between non-adjacent terminal blocks | 275 V |
| - At cut-to-length bridging with cover | 275 V |
| Rated insulation voltage | 250 V |
| output | (Permanent) |

Ex level General

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

Ex connection data General

| | |
|---|---|
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm² ... 6 mm² |
| Connection capacity AWG | 24 ... 10 |
| Connection capacity flexible | 0.2 mm² ... 4 mm² |
| Connection capacity AWG | 24 ... 12 |
| output | (Permanent) |

Ex level Level 2

| | |
|---|---|
| Rated current | 29 A (4 mm²) |
| Maximum load current | 32 A (6 mm²) |
| Contact resistance | 0.9 mΩ |
| Temperature increase | 40 K (29 A/4 mm²) |
| output | (Permanent) |

Ex level Level 3

| | |
|---|---|
| Rated current | 6.3 A (4 mm²) |
| Maximum load current | 6.3 A (6 mm²) |
| Contact resistance | 5 mΩ |

## Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 118.5 mm |
| Depth | 82.6 mm |
| Depth on NS 35/7,5 | 83.9 mm |
| Depth on NS 35/15 | 91.4 mm |

## Material specifications

| | |
|---|---|
| Color | black (RAL 9005) |

| | |
|---|---|
| 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

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 Hz to $f_2$ = 150 Hz |
| ASD level | 0.964 $(m/s^2)^2/Hz$ |
| 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

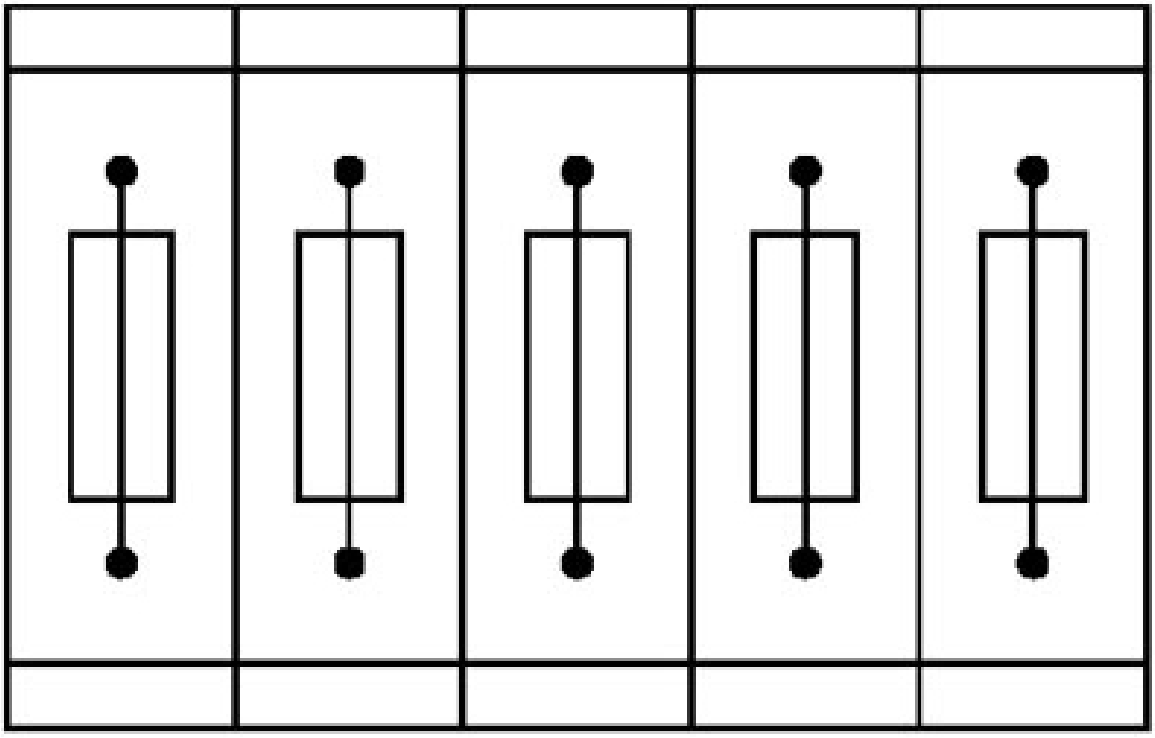
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1/IEC 60947-7-2 |
| | IEC 60947-7-3 |

## Mounting

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

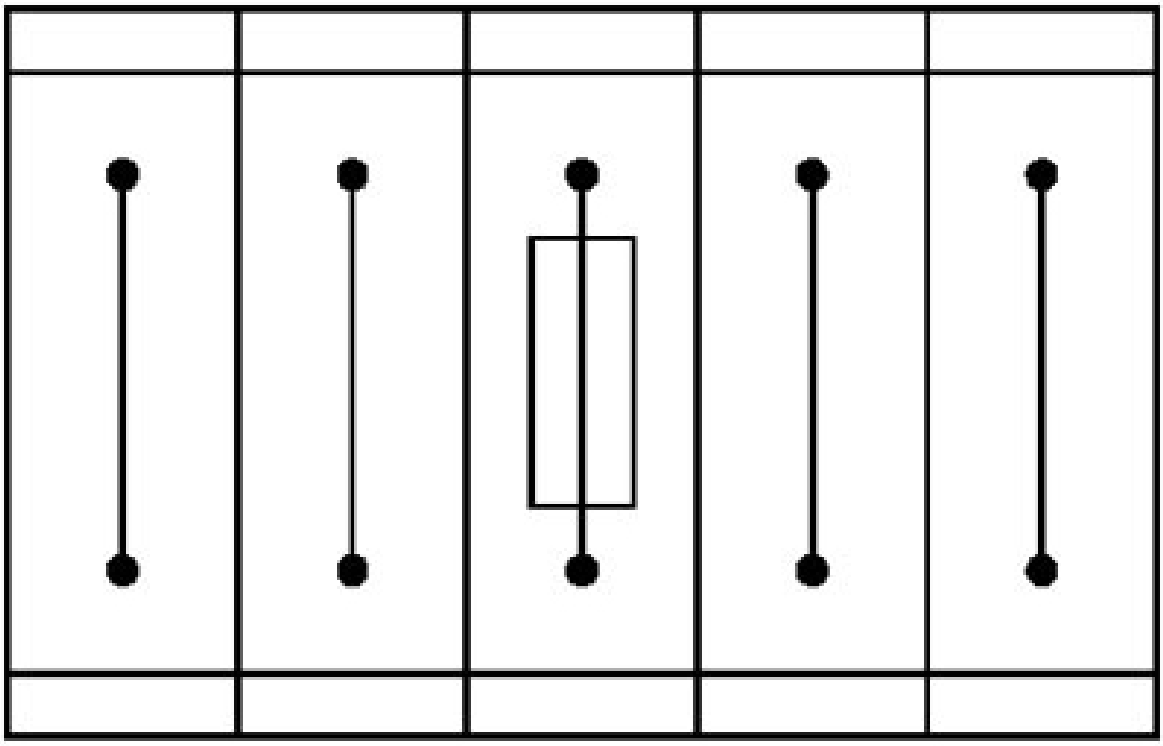
## Drawings

Application drawing



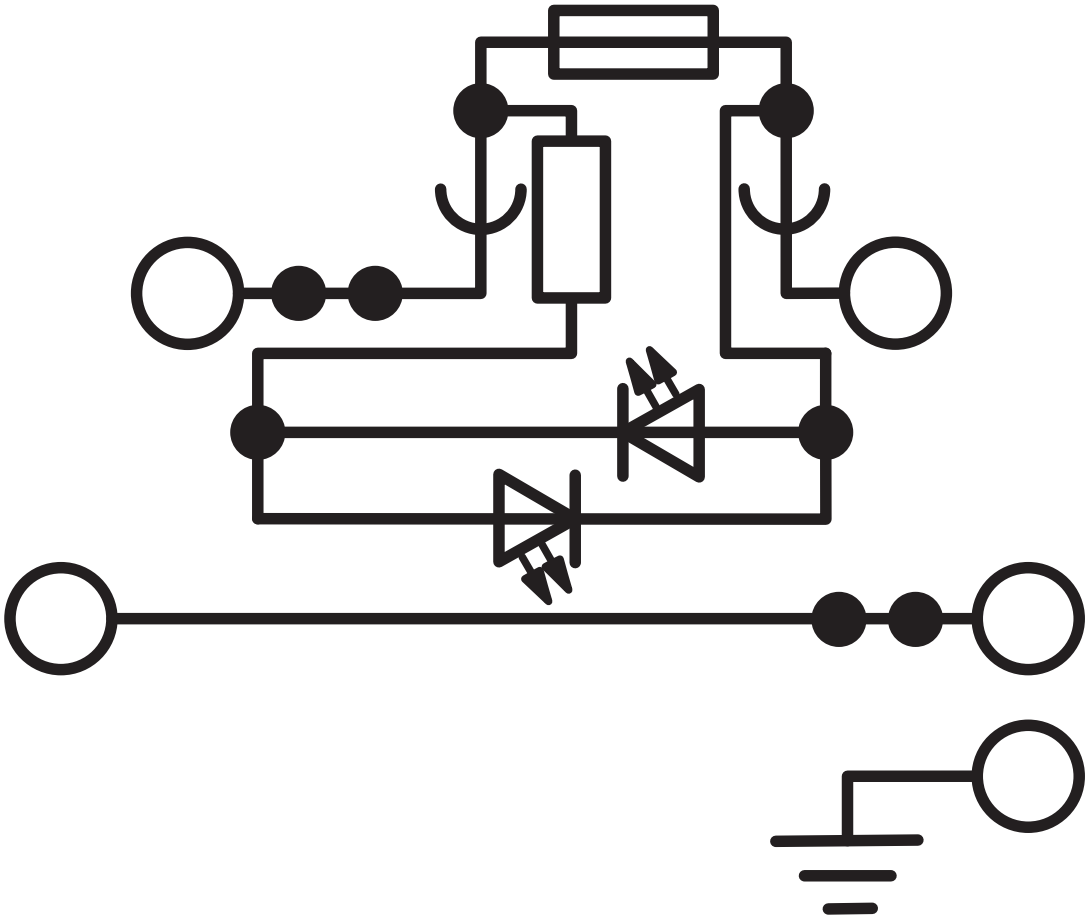
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

Application drawing



Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

Circuit diagram



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3002605

**CSA**
Approval ID: 13631

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| C | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 10 | - |

**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 $mm^2$ |
|---|---|---|---|---|
| B | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| PE connection | 300 V | - | 24 - 10 | - |
| C | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| PE connection | 300 V | - | 24 - 10 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 10 | - |

**cUL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Feed-through | 275 V | 20 A | 24 - 10 | 24 - 10 |
| depending on the LED display | 275 V | 6.3 A | 24 - 10 | 24 - 10 |

**UL Recognized**
Approval ID: E192998

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| Feed-through | 275 V | 20 A | 24 - 10 | - |
| depending on the LED display | 275 V | 6.3 A | 24 - 10 | - |

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

**CCC**
Approval ID: 2020322313000626

**ATEX**
Approval ID: KIWA17ATEX0045U

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

**EAC Ex**
Approval ID: KZ 7500525010101950

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

### ETIM

| | |
|---|---|
| ETIM 9.0 | EC000899 |

### UNSPSC

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

## 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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