# PT 4-L/HESILED 60 (5X20) - Fuse modular terminal block

3002611

https://www.phoenixcontact.com/nl/products/3002611

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 500 V, nominal current: 28 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, Rated cross section: 4 $mm^2$, cross section: 0.2 $mm^2$ - 6 $mm^2$, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- Time-saving conductor connection thanks to tool-free direct-connection technology
- Convenient plugging with lower insertion force
- Easy integration and replacement of fuses with the lever element
- High conductor pull-out forces due to the spring design
- Full flexibility thanks to the standardized CLIPLINE complete bridging, marking, and testing accessories
- Easy checking of the fuses with optical signal unit

## Commercial data

| | |
|---|---|
| Item number | 3002611 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE2236 |
| Product key | BE2236 |
| GTIN | 4055626370248 |
| Weight per piece (including packing) | 27,64 g |
| Weight per piece (excluding packing) | 27,64 g |
| Customs tariff number | 85369095 |
| Country of origin | CN |

# Technical data

## Notes

| | |
|---|---|
| Order information: | Fuse-link not supplied as standard |
| 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. |

## Product properties

| | |
|---|---|
| Number of connections | 4 |
| Number of rows | 3 |
| Potentials | 2 |

### 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 | 30 V AC/DC ... 60 V AC/DC |
| LED current range | 0.4 mA ... 0.86 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 | 30 V AC/DC ... 60 V AC/DC |

## Connection data

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

### Level 1

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-3 |
| 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 ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 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 |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 28 A |
| Maximum load current | 32 A (with 6 mm² conductor cross-section, rigid) |
| Nominal voltage | 500 V |

Level 2

| | |
|---|---|
| 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 ... 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 |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm² ... 1 mm² |
| Nominal cross section | 4 mm² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage | 60 V (the voltage is determined by the light indicator.) |

Level 1 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 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 |

## Ex data

Rated data (ATEX/IECEx)

| | |
|---|---|
| Identification | 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 |
| 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 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

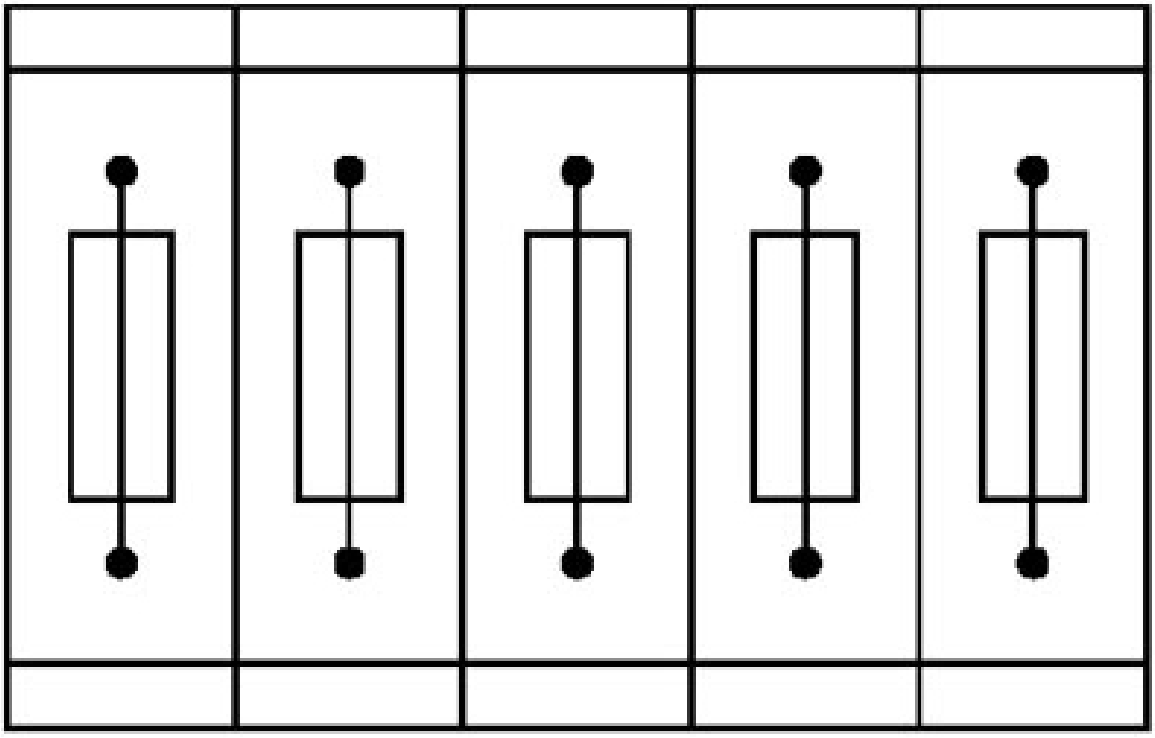
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-3 |
| | IEC 60947-7-3 |

## Mounting

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

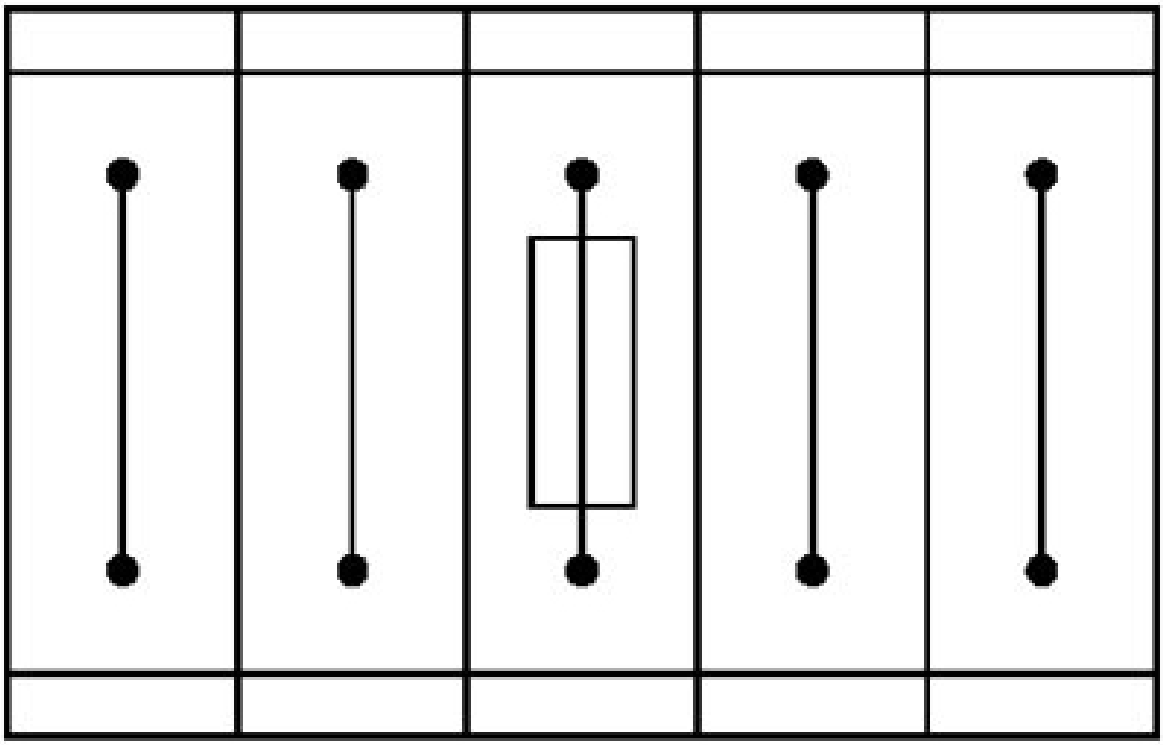
## Drawings

Application drawing



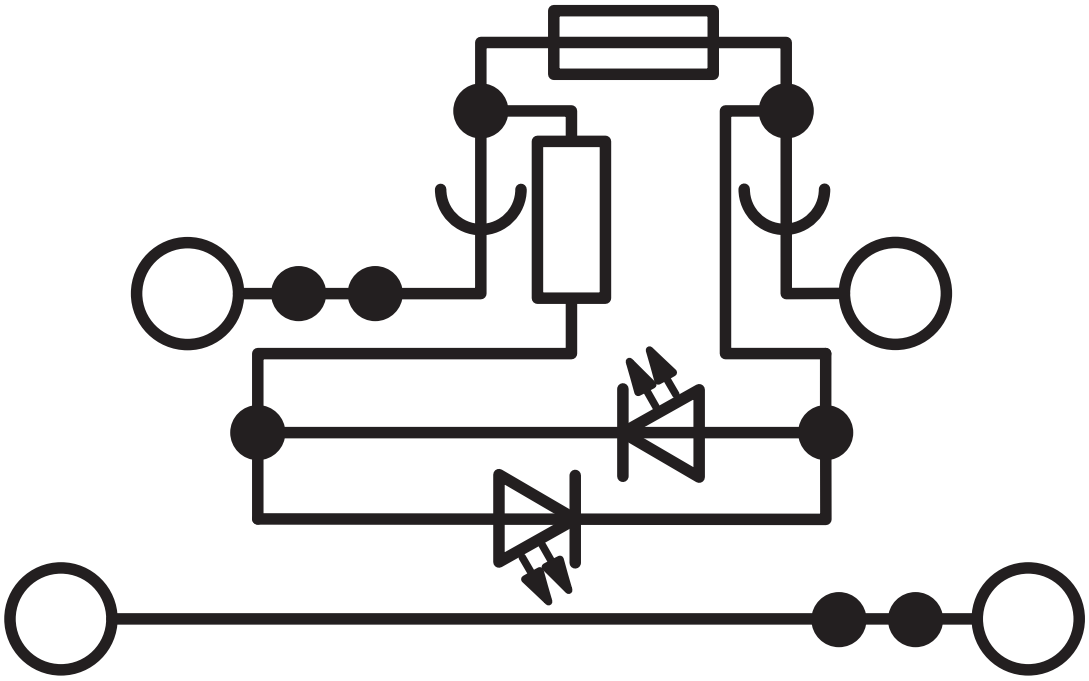
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

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/nl/products/3002611

**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 | - |
| 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 | - |

**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 | - |
| depending on the LED display | 275 V | 6.3 A | 24 - 10 | - |

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

**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 | - |

**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 10.0 | 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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