

# PT 10-FSI/C-LED 24 - Fuse modular terminal block



1088500

<https://www.phoenixcontact.com/us/products/1088500>

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Fuse modular terminal block, fuse type: Blade, fuse type: C, nom. voltage: 24 V, nominal current: 25 A, connection method: Push-in connection, Rated cross section: 10 mm<sup>2</sup>, cross section: 0.5 mm<sup>2</sup> - 16 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: black

## Your advantages

- In addition to the testing option in the double function shaft, all terminal blocks provide an additional test pick-off
- Quick identification of faulty fuses, thanks to LED status indicator
- Convenient testing of fuses with test pick-offs on both sides
- The easily accessible fuse inserts are easy to use or replace
- The compact design and front connection enable wiring in a confined space
- 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
- Suitable for all flat-type fuse-links designed according ISO 8820-3 (DIN 72581-3)

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1088500       |
| Packing unit                         | 25 pc         |
| Minimum order quantity               | 25 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2236        |
| GTIN                                 | 4055626890234 |
| Weight per piece (including packing) | 31.7 g        |
| Weight per piece (excluding packing) | 31.7 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | CN            |

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## Technical data

### Notes

#### 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 | 2                   |
| Number of rows        | 1                   |
| Potentials            | 1                   |

#### Insulation characteristics

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

### Electrical properties

|                                                 |        |
|-------------------------------------------------|--------|
| Fuse type                                       | Blade  |
| Rated surge voltage                             | 6 kV   |
| Maximum power dissipation for nominal condition | 1.82 W |
| Fuse                                            | C      |

### Connection data

|                                                                                                                   |                                                                                 |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Number of connections per level                                                                                   | 2                                                                               |
| Nominal cross section                                                                                             | 10 mm <sup>2</sup>                                                              |
| Rated cross section AWG                                                                                           | 6                                                                               |
| Connection method                                                                                                 | Push-in connection                                                              |
| Note                                                                                                              | The current is determined by the fuse used, the voltage by the light indicator. |
| Stripping length                                                                                                  | 18 mm ... 20 mm                                                                 |
| Connection in acc. with standard                                                                                  | IEC 60947-7-3                                                                   |
| Conductor cross-section rigid                                                                                     | 0.5 mm <sup>2</sup> ... 16 mm <sup>2</sup>                                      |
| Cross section AWG                                                                                                 | 20 ... 6 (converted acc. to IEC)                                                |
| Conductor cross-section flexible                                                                                  | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                      |
| Conductor cross-section, flexible [AWG]                                                                           | 20 ... 8 (converted acc. to IEC)                                                |
| Conductor cross-section flexible (ferrule without plastic sleeve)                                                 | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                      |
| Flexible conductor cross-section (ferrule with plastic sleeve)                                                    | 0.5 mm <sup>2</sup> ... 10 mm <sup>2</sup>                                      |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                       |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve                         | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup>                                       |
| Nominal current                                                                                                   | 25 A                                                                            |
| Maximum load current                                                                                              | 30 A                                                                            |
| Nominal voltage                                                                                                   | 24 V                                                                            |

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|                       |                    |
|-----------------------|--------------------|
| Nominal cross section | 10 mm <sup>2</sup> |
|-----------------------|--------------------|

Connection cross sections directly pluggable

|                                                                   |                                          |
|-------------------------------------------------------------------|------------------------------------------|
| Conductor cross-section rigid                                     | 1 mm <sup>2</sup> ... 16 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 1 mm <sup>2</sup> ... 10 mm <sup>2</sup> |

## Dimensions

|                    |         |
|--------------------|---------|
| Width              | 10.2 mm |
| Height             | 88.9 mm |
| Depth              | 49.5 mm |
| Depth on NS 35/7,5 | 50.5 mm |
| Depth on NS 35/15  | 58 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 | No |
|-----------------|----|

## 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         |
| Frequency              | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 250 Hz |
| ASD level              | 6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz        |
| Acceleration           | 3.12g                                            |
| Test duration per axis | 5 h                                              |

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|                 |                   |
|-----------------|-------------------|
| Test directions | X-, Y- and Z-axis |
| Result          | Test passed       |

## Shocks

|                                |                                         |
|--------------------------------|-----------------------------------------|
| Specification                  | DIN EN 50125-3 (VDE 0115-108-3):2003-10 |
| Pulse shape                    | Half-sine                               |
| Acceleration                   | 20 m/s <sup>2</sup>                     |
| Shock duration                 | 11 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

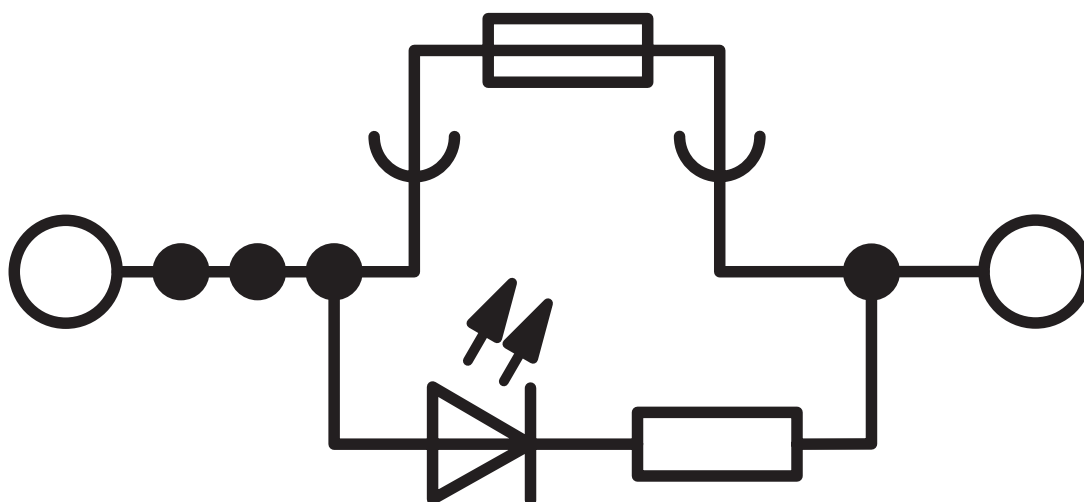
|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-3 |
|----------------------------------|---------------|

## Mounting

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

## Drawings

Circuit diagram



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## Approvals

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|  <b>CSA</b><br>Approval ID: 158887 |                       |                       |                   |                             |
|---------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
|                                                                                                                     | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B                                                                                                                   | 300 V                 | 25 A                  | 20 - 6            | -                           |
| C                                                                                                                   | 300 V                 | 25 A                  | 20 - 6            | -                           |
| D                                                                                                                   | 600 V                 | 5 A                   | 20 - 6            | -                           |

|  <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                                                                                                                                  | 300 V                 | 25 A                  | 20 - 6            | -                           |
| C                                                                                                                                  | 300 V                 | 25 A                  | 20 - 6            | -                           |
| F                                                                                                                                  | 630 V                 | 25 A                  | 20 - 6            | -                           |
| D                                                                                                                                  | 600 V                 | 5 A                   | 20 - 6            | -                           |

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|-----------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|

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## Classifications

### ECLASS

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

### ETIM

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

### 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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