

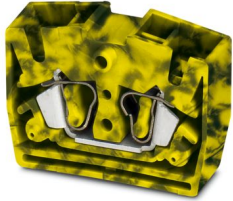
# MSDB 2,5-FE-F - Mini feed-through terminal block



3244263

<https://www.phoenixcontact.com/us/products/3244263>

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Mini feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, number of connections: 4, connection method: Spring-cage connection, Rated cross section: 2.5 mm<sup>2</sup>, 1 level, cross section: 0.08 mm<sup>2</sup> - 4 mm<sup>2</sup>, mounting type: Direct mounting with flange, color: black/yellow

## Your advantages

- Clear arrangement thanks to marking of all terminal points
- Space saving thanks to compact design and mounting option on a 15 mm DIN rail
- Easy potential distribution thanks to standardized plug-in bridges

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3244263       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Product key                          | BE2165        |
| GTIN                                 | 4046356793155 |
| Weight per piece (including packing) | 6.72 g        |
| Weight per piece (excluding packing) | 6 g           |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                       |                          |
|-----------------------|--------------------------|
| Product type          | Miniature terminal block |
| Number of connections | 4                        |
| Number of rows        | 1                        |

### Insulation characteristics

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

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 8 kV   |
| Maximum power dissipation for nominal condition | 0.77 W |

### Connection data

|                                 |                     |
|---------------------------------|---------------------|
| Number of connections per level | 2                   |
| Nominal cross section           | 2.5 mm <sup>2</sup> |

#### 1 level

|   |   |
|---|---|
| Connection method   | Spring-cage connection                                |
| Stripping length  | 8 mm  |
| Internal cylindrical gage   | A3  |
| Connection in acc. with standard  | IEC 60947-7-1   |
| Conductor cross-section rigid   | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>            |
| Cross section AWG   | 28 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section flexible  | 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Conductor cross-section, flexible [AWG]   | 28 ... 14 (converted acc. to IEC)                     |
| Conductor cross-section flexible (ferrule without plastic sleeve)                         | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| Flexible conductor cross-section (ferrule with plastic sleeve)                            | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>          |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm <sup>2</sup>                                   |
| Nominal cross section   | 2.5 mm <sup>2</sup>                                   |
| Nominal current   | 24 A  |
| Maximum load current  | 30 A (with 4 mm <sup>2</sup> conductor cross-section) |
| Nominal voltage   | 800 V   |
| Connection in acc. with standard  | IEC/EN 60079-7  |
| Cross section AWG   | 28 ... 12 (converted acc. to IEC)                     |
| Conductor cross-section, flexible [AWG]   | 28 ... 14 (converted acc. to IEC)                     |

### Ex data

#### Rated data (ATEX/IECEx)

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

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|                          |   |
|--------------------------|---|
| Ex-certified accessories | 3024180 D-MSB 1,5-F                     |
|                          | 1204517 SZF 1-0,6X3,5                   |
| List of bridges          | Insertion bridge / ESB 2-MZDB / 3029703 |
| Bridge data              | 21 A (2.5 mm <sup>2</sup> )             |
| Ex temperature increase  | 40 K (21.3 A / 2.5 mm <sup>2</sup> )    |
| Rated insulation voltage | 500 V                                   |
|                          | 500 V                                   |
| output                   | (Permanent)                             |

## Ex level General

|                      |         |
|----------------------|---------|
| Rated voltage        | 550 V   |
| Rated current        | 21 A    |
| Maximum load current | 26 A    |
| Contact resistance   | 0.87 mΩ |

## Ex connection data General

|                              |  |
|------------------------------|--|
| Nominal cross section        | 2.5 mm <sup>2</sup>                          |
| Rated cross section AWG      | 14   |
| Connection capacity rigid    | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Connection capacity AWG      | 28 ... 12                                    |
| Connection capacity flexible | 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Connection capacity AWG      | 28 ... 14                                    |

## Dimensions

|                 |         |
|-----------------|---------|
| Width           | 10.4 mm |
| End cover width | 4 mm    |
| Height          | 32 mm   |
| Depth           | 22 mm   |
| Hole diameter   | 3.2 mm  |

## Material specifications

|   |                      |
|---|----------------------|
| Color   | multicolored (RAL -) |
|   | black (RAL 9005)     |
|   | yellow (RAL 1018)    |
| 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          |

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

### 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/EN 60079-7 |

## Mounting

|               |                             |
|---------------|-----------------------------|
| Mounting type | Direct mounting with flange |
|---------------|-----------------------------|

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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/3244263>

|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| B  | 600 V                 | 20 A                  | 28 - 12           | -                           |
| C  | 600 V                 | 20 A                  | 28 - 12           | -                           |

|  <b>cUL Recognized</b><br>Approval ID: FILE E 60425 |                       |                       |                   |                             |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine  | 600 V                 | 15 A                  | 26 - 14           | -                           |

|  <b>UL Recognized</b><br>Approval ID: FILE E 60425 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   | 600 V                 | 15 A                  | 26 - 14           | -                           |

| <b>DNV</b><br>Approval ID: TAE00001CS |  |  |  |  |
|---------------------------------------|--|--|--|--|
|---------------------------------------|--|--|--|--|

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

|  <b>IECEx</b><br>Approval ID: IECExPTB08.0048U |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>ATEX</b><br>Approval ID: PTB08ATEX1075U |  |  |  |  |
|--|--|--|--|--|
|--|--|--|--|--|

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

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**UKCA-EX**

Approval ID: CSAE 22UKEX1245U

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
| ECLASS-15.0 | 27250101 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000897 |
|-----------|----------|

### 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% |
|-------------------------------------|----------------------------|

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.089 kg CO2e |
|---------|---------------|

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