

## Fuse modular terminal block - PT 4-HESILED 24 (5X20) - 3211903

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Lever-type fuse terminal block, black, for 5 x 20 mm G fuse inserts, with LED for 24 V AC/DC

### Why buy this product

- ✓ 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
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- ✓ Tested for railway applications

### Key Commercial Data

|              |   |
|--------------|---|
| Packing unit | 50 STK  |
| GTIN         | <br>4 046356 482530 |
| GTIN         | 4046356482530   |

### Technical data

#### General

|  |   |
|--|---|
| Note                                   | 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. |
| Number of levels                       | 1   |
| Number of connections                  | 2   |
| Nominal cross section                  | 4 mm <sup>2</sup>   |
| Color                                  | black   |
| Insulating material                    | PA  |
| Flammability rating according to UL 94 | V0  |
| Area of application                    | Railway industry  |
|  | Machine building  |
|  | Plant engineering   |

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## Technical data

### General

|   |  |
|---|--|
| Maximum power dissipation for nominal condition                         | 1.6 W  |
| Fuse  | G / 5 x 20   |
| Fuse type   | Glass / ceramics / ...   |
| Rated surge voltage   | 4 kV   |
| Degree of pollution   | 3  |
| Overvoltage category  | III  |
| Insulating material group   | I  |
| 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) |
| LED voltage range   | 12 V AC/DC ... 30 V AC/DC  |
| LED current range   | 0.31 mA ... 0.95 mA  |
| Connection in acc. with standard  | IEC 60947-7-3  |
| Maximum load current  | 6.3 A (the current is determined by the fuse used)   |
| Nominal current $I_N$   | 6.3 A  |
| Nominal voltage $U_N$   | 24 V   |
| Open side panel   | Yes  |
| Relative insulation material temperature index (Elec., UL 746 B)        | 130 °C   |
| Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C   |
| Static insulating material application in cold                          | -60 °C   |
| Behavior in fire for rail vehicles (DIN 5510-2)                         | Test passed  |
| Flame test method (DIN EN 60695-11-10)                                  | V0   |
| Oxygen index (DIN EN ISO 4589-2)  | >32 %  |
| NF F16-101, NF F10-102 Class I  | 2  |
| NF F16-101, NF F10-102 Class F  | 2  |
| 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   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 28 MJ/kg   |
| 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  |

### Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Length | 56 mm  |

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### Dimensions

|                  |         |
|------------------|---------|
| Height NS 35/7,5 | 64.8 mm |
| Height NS 35/15  | 72.3 mm |

### Connection data

|   |                      |
|---|----------------------|
| Conductor cross section solid min.  | 0.2 mm <sup>2</sup>  |
| Conductor cross section solid max.  | 6 mm <sup>2</sup>    |
| Conductor cross section flexible min.   | 0.2 mm <sup>2</sup>  |
| Conductor cross section flexible max.   | 4 mm <sup>2</sup>    |
| Conductor cross section AWG min.  | 24                   |
| Conductor cross section AWG max.  | 10                   |
| Conductor cross section flexible, with ferrule without plastic sleeve min.              | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule without plastic sleeve max.              | 4 mm <sup>2</sup>    |
| Conductor cross section flexible, with ferrule with plastic sleeve min.                 | 0.25 mm <sup>2</sup> |
| Conductor cross section flexible, with ferrule with plastic sleeve max.                 | 4 mm <sup>2</sup>    |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup>  |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1 mm <sup>2</sup>    |
| Connection method   | Push-in connection   |
| Stripping length  | 10 mm ... 12 mm      |
| Internal cylindrical gage   | A4                   |

### Standards and Regulations

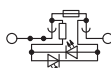
|  |   |
|--|---|
| Connection in acc. with standard                       | CSA   |
|  | IEC 60947-7-3                                   |
| Flammability rating according to UL 94                 | V0  |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 HL 1 - HL 3 |

### Environmental Product Compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

## Drawings

Circuit diagram



## Approvals

Approvals

# Fuse modular terminal block - PT 4-HESILED 24 (5X20) - 3211903

## Approvals

### Approvals

UL Recognized / cUL Recognized / CSA / LR / BV / EAC / DNV GL / PRS / NK / EAC / cULus Recognized

### Ex Approvals

### Approval details

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| UL Recognized              |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
|                            | B     | C   |              |
| Nominal voltage UN         | 30 V  | 30 V  |              |
| Nominal current IN         | 6.3 A | 6.3 A   |              |
| mm <sup>2</sup> /AWG/kcmil | 24-10 | 24-10   |              |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| cUL Recognized             |       | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 60425 |
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|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | C   |       |
| Nominal voltage UN         | 30 V  | 30 V  |       |
| Nominal current IN         | 6.3 A | 6.3 A   |       |
| mm <sup>2</sup> /AWG/kcmil | 24-10 | 24-10   |       |

|    |  |   |               |
|----|--|---|---------------|
| LR |  | <a href="http://www.lr.org/en">http://www.lr.org/en</a> | 12/20038 (E3) |
|----|--|---|---------------|

|    |  |   |             |
|----|--|---|-------------|
| BV |  | <a href="http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials">http://www.veristar.com/portal/veristarinfo/generalinfo/approved/approvedProducts/equipmentAndMaterials</a> | 39980/A0 BV |
|----|--|---|-------------|

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## Approvals

|     |  |               |
|-----|--|---------------|
| EAC |  | EAC-Zulassung |
|-----|--|---------------|

|        |   |            |
|--------|---|------------|
| DNV GL | <a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a> | TAE000010T |
|--------|---|------------|

|     |  |  |
|-----|--|--|
| PRS |  | <a href="http://www.prs.pl/">http://www.prs.pl/</a><br>TE/2107/880590/16 |
|-----|--|--|

|    |  |   |
|----|--|---|
| NK |  | <a href="http://www.classnk.or.jp/hp/en/">http://www.classnk.or.jp/hp/en/</a><br>14ME0912 |
|----|--|---|

|     |  |                          |
|-----|--|--------------------------|
| EAC |  | RU C-<br>DE.A*30.B.01742 |
|-----|--|--------------------------|

|                  |  |   |
|------------------|--|---|
| cULus Recognized |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> |
|------------------|--|---|

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