

## Marshalling panel - FTRV 8 /RDWH - 3270193

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Marshalling panel, without actuation lever, nom. voltage: 250 V, nominal current: 8 A, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, AWG: 14 - 26, connection method: Push-in connection, number of positions: 2, number of connections: 32, width: 8.3 mm, length: 100 mm, color: gray, color of connection elements: red, white, mounting: NS 35/7,5, NS 35/15

### Your advantages

- ✓ Individual color assignment of cable and terminal point to ensure error-free, safe operation
- ✓ Tool-free wiring in a confined space thanks to compact size
- ✓ High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- ✓ The 2.3 mm test connection enables testing between the conductors with test pins commonly used in the industry



### Key Commercial Data

|                      |   |
|----------------------|---|
| Packing unit         | 1   |
| GTIN                 | <br>4 046356 944120 |
| GTIN                 | 4046356944120   |
| Custom tariff number | 85369010  |

### Technical data

#### General

|                              |                     |
|------------------------------|---------------------|
| Number of positions          | 2                   |
| Number of levels             | 8                   |
| Number of connections        | 32                  |
| Potentials                   | 8                   |
| Nominal cross section        | 1.5 mm <sup>2</sup> |
| Color                        | gray                |
| Color of connection elements | red (4x top)        |

# Marshalling panel - FTRV 8 /RDWH - 3270193

## Technical data

### General

|   |  |
|---|--|
|   | white (4x bottom)  |
| Insulating material   | PA   |
| Flammability rating according to UL 94                                  | V0   |
| Rated surge voltage   | 4 kV   |
| Overvoltage category  | III  |
| Insulating material group   | I  |
| Maximum power dissipation for nominal condition                         | 0.56 W (the value is multiplied when connecting multiple levels) |
| Maximum load current  | 8 A (with 1.5 mm <sup>2</sup> conductor cross section)           |
| Nominal current I <sub>N</sub>  | 8 A  |
| Nominal voltage U <sub>N</sub>  | 250 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)) | 125 °C   |
| Static insulating material application in cold                          | -60 °C   |
| Surface flammability NFPA 130 (ASTM E 162)                              | passed   |
| Specific optical density of smoke NFPA 130 (ASTM E 662)                 | passed   |
| Calorimetric heat release NFPA 130 (ASTM E 1354)                        | 27,5 MJ/kg   |
| Smoke gas toxicity NFPA 130 (SMP 800C)                                  | passed   |
| 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            | 8.3 mm  |
| Length           | 100 mm  |
| Height NS 35/7,5 | 87.5 mm |
| Height NS 35/15  | 95 mm   |

### Connection data

|                                    |   |
|------------------------------------|---|
| Connection                         | 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level |
| Connection method                  | Push-in connection                              |
| Stripping length                   | 8 mm ... 10 mm                                  |
| Connection in acc. with standard   | IEC 60947-7-1                                   |
| Conductor cross section solid min. | 0.14 mm <sup>2</sup>                            |
| Conductor cross section solid max. | 2.5 mm <sup>2</sup>                             |
| Conductor cross section AWG min.   | 26  |
| Conductor cross section AWG max.   | 14  |

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## Technical data

### Connection data

|  |  |
|--|--|
| Conductor cross section flexible min.                                      | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible max.                                      | 1.5 mm <sup>2</sup>                            |
| Min. AWG conductor cross section, flexible                                 | 26   |
| Max. AWG conductor cross section, flexible                                 | 14   |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.14 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |
| Connection cross sections directly pluggable                               | 0.34 mm <sup>2</sup> 2.5 mm <sup>2</sup> 20 14 |
| Conductor cross section solid min.   | 0.34 mm <sup>2</sup>                           |
| Conductor cross section solid max.   | 2.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm <sup>2</sup>                            |
| Conductor cross section flexible, with ferrule with plastic sleeve min.    | 0.34 mm <sup>2</sup>                           |
| Conductor cross section flexible, with ferrule with plastic sleeve max.    | 1.5 mm <sup>2</sup>                            |

### Ambient conditions

|  |   |
|--|---|
| Operating temperature                    | -60 °C ... 105 °C (max. short-term operating temperature 130°C)           |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Permissible humidity (storage/transport) | 30 % ... 70 %   |
| Ambient temperature (assembly)           | -5 °C ... 70 °C   |
| Ambient temperature (actuation)          | -5 °C ... 70 °C   |

### Standards and Regulations

|  |               |
|--|---------------|
| Connection in acc. with standard       | IEC 60947-7-1 |
| Flammability rating according to UL 94 | V0            |

### Environmental Product Compliance

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

## Drawings

### Circuit diagram



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## Classifications

### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27141120 |
| eCl@ss 11.0   | 27141120 |
| eCl@ss 4.0    | 27141100 |
| eCl@ss 4.1    | 27141100 |
| eCl@ss 5.0    | 27141100 |
| eCl@ss 5.1    | 27141100 |
| eCl@ss 6.0    | 27141100 |
| eCl@ss 7.0    | 27141120 |
| eCl@ss 9.0    | 27141120 |

### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000897 |
| ETIM 6.0 | EC000897 |
| ETIM 7.0 | EC000897 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |
| UNSPSC 18.0   | 39121410 |
| UNSPSC 19.0   | 39121410 |
| UNSPSC 20.0   | 39121410 |
| UNSPSC 21.0   | 39121410 |

## Approvals

### Approvals

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#### Approvals

DNV GL / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / IECCEB Scheme / EAC / cULus Recognized

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#### Ex Approvals

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## Approvals

### Approval details

|        |  |   |            |
|--------|--|---|------------|
| DNV GL |  | <a href="https://approvalfinder.dnvgl.com/">https://approvalfinder.dnvgl.com/</a> | TAE000016Y |
|--------|--|---|------------|

|                            |       |   |       |
|----------------------------|-------|---|-------|
| CSA                        |       | <a href="http://www.csagroup.org/services-industries/product-listing/">http://www.csagroup.org/services-industries/product-listing/</a> | 13631 |
|                            | B     | D   |       |
| Nominal voltage UN         | 300 V | 300 V   |       |
| Nominal current IN         | 10 A  | 10 A  |       |
| mm <sup>2</sup> /AWG/kcmil | 26-14 | 26-14   |       |


|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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 |
|                            | D     |   |              |
| Nominal voltage UN         | 300 V |   |              |
| Nominal current IN         | 10 A  |   |              |
| mm <sup>2</sup> /AWG/kcmil | 26-14 |   |              |

|                            |          |   |           |
|----------------------------|----------|---|-----------|
| KEMA-KEUR                  |          | <a href="http://www.dekra-certification.com">http://www.dekra-certification.com</a> | 71-102890 |
| Nominal voltage UN         | 250 V    |   |           |
| Nominal current IN         | 8 A      |   |           |
| mm <sup>2</sup> /AWG/kcmil | 0.14-2.5 |   |           |

|                            |       |   |              |
|----------------------------|-------|---|--------------|
| 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 |
|                            | D     |   |              |
| Nominal voltage UN         | 300 V |   |              |
| Nominal current IN         | 10 A  |   |              |
| mm <sup>2</sup> /AWG/kcmil | 26-14 |   |              |

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### Approvals

|                    |   |   |          |
|--------------------|---|---|----------|
| IECEE CB Scheme    |  | <a href="http://www.iecee.org/">http://www.iecee.org/</a> | NL-58817 |
| Nominal voltage UN |   | 250 V   |          |
| Nominal current IN |   | 8 A   |          |

|     |   |                          |
|-----|---|--------------------------|
| EAC |  | RU C-<br>DE.BL08.B.00682 |
|-----|---|--------------------------|

|                  |   |
|------------------|---|
| cULus Recognized |  |
|------------------|---|