**PHŒNIX CONTACT**

# Marshalling panel - FTRV 8 /WHRD - 3270187

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Marshalling panel, without actuation lever, nom. voltage: 250 V, nominal current: 8 A, cross section: 0.14 mm² - 2.5 mm², 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: white, red, mounting: NS 35/7,5, NS 35/15

## Your advantages

☑ High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.

☑ 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

☑ The 2.3 mm test connection enables testing between the conductors with test pins commonly used in the industry

**RoHS**

## Key Commercial Data

| Packing unit | 10 pc |
|---|---|
| Minimum order quantity | 10 pc |
| GTIN | 4 046356 796347 |
| GTIN | 4046356796347 |
| Weight per Piece (excluding packing) | 36.460 g |
| Custom tariff number | 85369010 |
| Country of origin | Poland |

## Technical data

### General

| Number of positions | 2 |
|---|---|
| Number of levels | 8 |
| Number of connections | 32 |
| Potentials | 8 |
| Nominal cross section | 1.5 mm² |
| Color | gray |
| Color of connection elements | white (4x top) |
| | red (4x bottom) |

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Technical data

### General

| | |
|---|---|
| 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 mm² conductor cross section) |
| Nominal current $I_N$ | 8 A |
| Nominal voltage $U_N$ | 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 |
| 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) | 27,5 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 | 8.3 mm |
| Length | 100 mm |
| Height NS 35/7,5 | 87.5 mm |
| Height NS 35/15 | 95 mm |

### Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section solid min. | 0.14 mm² |
| Conductor cross section solid max. | 2.5 mm² |
| Conductor cross section AWG min. | 26 |
| Conductor cross section AWG max. | 14 |
| Conductor cross section flexible min. | 0.14 mm² |

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## Technical data

### Connection data

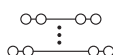| Conductor cross section flexible max. | 1.5 mm² |
|---|---|
| Min. AWG conductor cross section, flexible | 26 |
| Max. AWG conductor cross section, flexible | 14 |
| Conductor cross section flexible, with ferrule without plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule without plastic sleeve max. | 1.5 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve min. | 0.14 mm² |
| Conductor cross section flexible, with ferrule with plastic sleeve max. | 1.5 mm² |
| Stripping length | 8 mm ... 10 mm |

### Standards and Regulations

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

### Environmental Product Compliance

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

## Drawings

Circuit diagram



## Classifications

### eCl@ss

| eCl@ss 4.0 | 27141118 |
|---|---|
| eCl@ss 4.1 | 27141118 |
| eCl@ss 5.0 | 27141118 |
| eCl@ss 5.1 | 27141100 |
| eCl@ss 6.0 | 27141100 |
| eCl@ss 7.0 | 27141141 |
| eCl@ss 8.0 | 27141141 |
| eCl@ss 9.0 | 27141141 |

### ETIM

| ETIM 3.0 | EC000901 |
|---|---|
| ETIM 4.0 | EC000901 |
| ETIM 5.0 | EC000901 |

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## Classifications

### ETIM

| ETIM 6.0 | EC000901 |
|---|---|

### UNSPSC

| UNSPSC 6.01 | 30211811 |
|---|---|
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11 | 39121410 |
| UNSPSC 12.01 | 39121410 |
| UNSPSC 13.2 | 39121410 |

## Approvals

### Approvals

### Approvals

DNV GL / CSA / UL Recognized / KEMA-KEUR / cUL Recognized / IECEE CB Scheme / cULus Recognized

### Ex Approvals

### Approval details

| DNV GL | | http://exchange.dnv.com/tari/ | TAE000016Y |
|---|---|---|---|

| CSA | | http://www.csagroup.org/services-industries/product-listing/ | 13631 |
|---|---|---|---|

| | D | B |
|---|---|---|
| Nominal voltage UN | 300 V | 300 V |
| Nominal current IN | 10 A | 10 A |
| mm²/AWG/kcmil | 26-14 | 26-14 |

| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|---|---|---|---|

| | D |
|---|---|
| Nominal voltage UN | 300 V |
| Nominal current IN | 10 A |
| mm²/AWG/kcmil | 26-14 |

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## Approvals

| KEMA-KEUR | | http://www.dekra-certification.com | 71-102890 |
|---|---|---|---|
| Nominal voltage UN | | 250 V | |
| Nominal current IN | | 8 A | |
| mm²/AWG/kcmil | | 0.14-2.5 | |

| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 60425 |
|---|---|---|---|
| | | D | |
| Nominal voltage UN | | 300 V | |
| Nominal current IN | | 10 A | |
| mm²/AWG/kcmil | | 26-14 | |

| IECEE CB Scheme | | http://www.iecee.org/ | NL-50733 |
|---|---|---|---|
| Nominal voltage UN | | 250 V | |
| Nominal current IN | | 8 A | |

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

## Accessories

Accessories

DIN rail

DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

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## Accessories

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 WH PERF 2000MM - 1204119

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM - 1204122

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, Galvanized, white passivated, length: 2000 mm, color: silver

DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Aluminum, uncoated, length: 2000 mm, color: silver

DIN rail perforated - NS 35/ 7,5 ZN PERF 2000MM - 1206421

DIN rail perforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

### DIN rail, unperforated - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Steel, galvanized, length: 2000 mm, color: silver

### DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762

DIN rail, unperforated, Standard profile, width: 35 mm, height: 7.5 mm, acc. to EN 60715, material: Copper, uncoated, length: 2000 mm, color: copper-colored
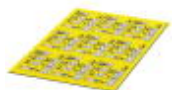
### End cap - NS 35/ 7,5 CAP - 1206560

DIN rail end piece, for DIN rail NS 35/7.5

## Documentation

### Mounting material - PT-IL - 3208090

Operating decal for the push-in Technology

## End block

### End clamp - CLIPFIX 35 - 3022218

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End clamp - CLIPFIX 35-5 - 3022276

Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

End clamp - E/NS 35 N - 0800886

End clamp, width: 9.5 mm, color: gray

End clamp - E/UK - 1201442

End clamp, width: 9.5 mm, height: 35.3 mm, material: PA, length: 50.5 mm, Mounting on a DIN rail NS 32 or NS 35, color: gray

End clamp - E/UK 1 - 1201413

End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

End cover

End cover - D-PTRV 8 WH - 3270154

End cover, length: 100 mm, width: 3.8 mm, height: 80.8 mm, color: white

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End cover - D-PTRV 8 WH 1-8 - 3270155

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH 1-8 LGS - 3270240

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH 8-1 - 3270242

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH 8-1 LGS - 3270244

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH 1-16 - 3270228

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End cover - D-PTRV 8 WH 1-16 LGS - 3270229

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 9-16 - 3270211

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 9-16 LGS - 3270212

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 17-24 - 3270213

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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End cover - D-PTRV 8 WH 17-24 LGS - 3270214

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End cover - D-PTRV 8 WH 25-32 - 3270215

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH 25-32 LGS - 3270216

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH A-H - 3270156

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH A-H LGS - 3270241

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

End cover - D-PTRV 8 WH H-A - 3270243

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

End cover - D-PTRV 8 WH H-A LGS - 3270245

End cover, length: 100 mm, width: 2.2 mm, height: 80.8 mm, color: white

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Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

Insulating sleeve, color: white

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Insulating sleeve - MPS-IH RD - 0201676

Insulating sleeve, color: red

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Insulating sleeve - MPS-IH BU - 0201689

Insulating sleeve, color: blue

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Insulating sleeve - MPS-IH YE - 0201692

Insulating sleeve, color: yellow

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

Insulating sleeve - MPS-IH GN - 0201702

Insulating sleeve, color: green

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Insulating sleeve - MPS-IH GY - 0201728

Insulating sleeve, color: gray

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Insulating sleeve - MPS-IH BK - 0201731

Insulating sleeve, color: black

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## Labeled terminal marker

Zack marker strip - ZB 8,3,LGS:FORTL.ZAHLEN - 0803480

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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Zack marker strip - ZB 8,3,QR:FORTL.ZAHLEN - 0803479

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

Zack marker strip - ZB 8,3 CUS - 8191573

Zack marker strip, Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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Marker for terminal blocks - TM-PTRV 8,QR:1-8 - 0803468

Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

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Marker for terminal blocks - TM-PTRV 8,QR:8-1 - 0803470

Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

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Marker for terminal blocks - TM-PTRV 8,QR:A-H - 0803471

Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

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Marker for terminal blocks - TM-PTRV 8,QR:H-A - 0803473

Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2,4x 9,2 mm

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## Mounting material

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

Retaining bracket - CDC-PTRV - 3270167

Retaining bracket, via four PTRV single modules, pitch: 8.3 mm, width: 35.6 mm, height: 71.5 mm, color: gray

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## Partition plate

Spacer plate - DP-PTRV 8 - 3270166

Spacer plate, length: 100 mm, width: 8.3 mm, height: 86 mm, color: gray

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## Screwdriver tools

Screwdriver - SZF 0-0,4X2,5 - 1204504

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

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Actuation tool - ST-BW 0 - 1200135

Actuation tool, for all 1.5 mm² spring cages from PT 1,5/S and FT 1,5/S

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## Terminal marking

Zack marker strip - ZB 8,3:UNBEDRUCKT - 0803444

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snap into tall marker groove, for terminal block width: 8.3 mm, lettering field size: 10.5 x 8.3 mm

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## Test plug terminal block

# Marshalling panel - FTRV 8 /WHRD - 3270187

## Accessories

Reducing plug - RPS - 0201647

Reducing plug, color: gray

Test plugs - MPS-MT - 0201744

Test plugs, with solder connection up to 1 mm² conductor cross section, color: gray