# Marshalling panel - PTRV 8 /GN

3270232

https://www.phoenixcontact.com/us/products/3270232

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Marshalling panel, nom. voltage: 250 V, nominal current: 8 A, connection method: Push-in connection, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level, Rated cross section: 1.5 $mm^2$, cross section: 0.14 $mm^2$ - 2.5 $mm^2$, mounting: NS 35/7,5, NS 35/15, color: gray, color of connection elements: green

## Your advantages

- Individual color assignment of cable and terminal point to ensure error-free, safe operation
- High contact quality thanks to push-in technology as a replacement for Wire-Wrap®, TERMI-POINT®, etc.
- Marshalling terminal with green conductor connection chambers
- 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

## Commercial Data

| | |
|---|---|
| Item number | 3270232 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales Key | B02 |
| Product Key | BE6211 |
| Catalog Page | Page 50 (C-1-2019) |
| GTIN | 4055626243252 |
| Weight per Piece (including packing) | 38 g |
| Weight per Piece (excluding packing) | 38 g |
| Customs tariff number | 85369010 |
| Country of origin | PL |

## Technical Data

### Product properties

| | |
|---|---|
| Product type | Marshalling terminal |
| Number of positions | 2 |
| Number of connections | 32 |
| Number of rows | 8 |
| Potentials | 8 |

Insulation characteristics

| | |
|---|---|
| Overvoltage category | III |

### Electrical properties

| | |
|---|---|
| Rated surge voltage | 4 kV |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

| | |
|---|---|
| Number of connections per level | 4 |
| Nominal cross section | 1.5 mm² |

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level

| | |
|---|---|
| Stripping length | 8 mm ... 10 mm |
| Conductor cross section solid | 0.14 mm² ... 2.5 mm² |
| Cross section AWG | 26 ... 14 |
| Conductor cross section flexible | 0.14 mm² ... 1.5 mm² |
| Conductor cross section, flexible [AWG] | 26 ... 14 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.14 mm² ... 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.14 mm² ... 1.5 mm² |
| Nominal current | 8 A |
| Maximum load current | 8 A (with 1.5 mm² conductor cross section) |
| Nominal voltage | 250 V |
| Nominal cross section | 1.5 mm² |

1st, 2nd, 3rd, 4th, 5th, 6th, 7th and 8th level Connection cross sections directly pluggable

| | |
|---|---|
| Conductor cross section solid | 0.34 mm² ... 2.5 mm² |
| Conductor cross section, solid [AWG] | 20 ... 14 |
| Flexible conductor cross section flexible (ferrule, w/o plastic sleeve) | 0.34 mm² ... 1.5 mm² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 0.34 mm² ... 1.5 mm² |

### Dimensions

| | |
|---|---|
| Width | 8.3 mm |
| Height NS 35/15 | 95 mm |
| Height NS 35/7,5 | 87.5 mm |

| | |
|---|---|
| Length | 100 mm |

## Material specifications

| | |
|---|---|
| Color | gray |
| Color of connection elements | green |
| 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)) | 125 °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) | 27,5 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 |

## Connector

| | |
|---|---|
| Number of positions | 2 |
| Number of positions | 2 |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Open side panel | Yes |

## Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -60 °C ... 105 °C (max. short-term operating temperature 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 (storage/transport) | 30 % ... 70 % |

## Standards and regulations

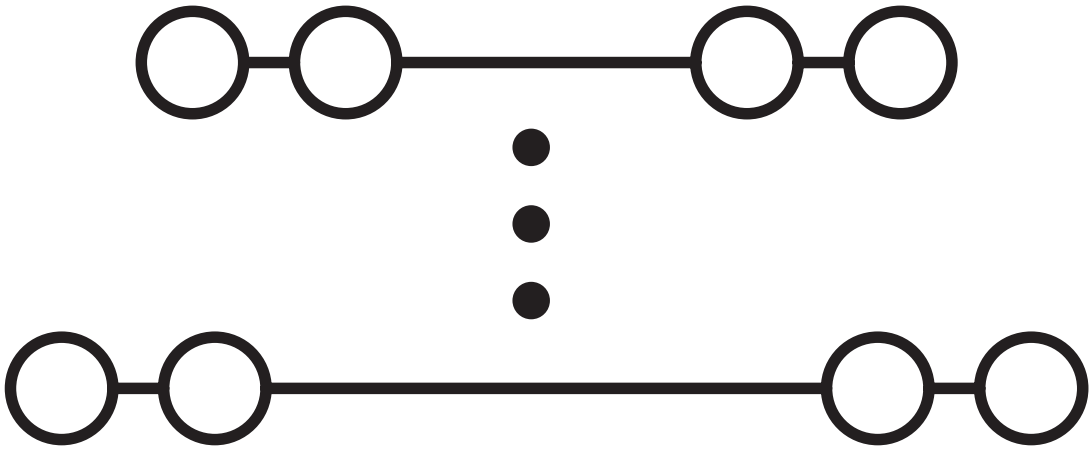
| | |
|---|---|
| Connection in acc. with standard | IEC 60947-7-1 |

## Mounting

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

## Drawings

Circuit diagram



## Approvals

**DNV**
Approval ID: TAE000016Y

**CSA**
Approval ID: 13631

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| Use group B | | | | |
| | 300 V | 10 A | 26 - 14 | - |
| Use group D | | | | |
| | 300 V | 10 A | 26 - 14 | - |

**IECEE CB Scheme**
Approval ID: NL-58817

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| | 250 V | 8 A | - | - |

**EAC**
Approval ID: RU C-DE.BL08.B.00682

**cULus Recognized**
Approval ID: E60425

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| Use group D | | | | |
| | 300 V | 10 A | 26 - 14 | - |

**KEMA-KEUR**
Approval ID: 71-102890

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section $mm^2$ |
|---|---|---|---|---|
| Only flexible conductors | 250 V | 8 A | - | 0.14 - 1.5 |
| Only rigid conductors | 250 V | 8 A | - | 0.14 - 2.5 |

**EAC**
Approval ID: B.01687

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27141120 |
| ECLASS-10.0.1 | 27141120 |
| ECLASS-11.0 | 27141120 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC000897 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental Product Compliance

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

## Accessories

### Screwdriver

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

https://www.phoenixcontact.com/us/products/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

### Reducing plug

Reducing plug - RPS - 0201647

https://www.phoenixcontact.com/us/products/0201647



Reducing plug, color: gray

## Spacer plate

Spacer plate - DP-PTRV 8 - 3270166

https://www.phoenixcontact.com/us/products/3270166



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

## Mounting material

Mounting material - PT-IL - 3208090

https://www.phoenixcontact.com/us/products/3208090

Operating decal for the push-in Technology



## DIN rail perforated

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

https://www.phoenixcontact.com/us/products/0801733



DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

## DIN rail perforated

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

https://www.phoenixcontact.com/us/products/1204119



DIN rail perforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 25 (50 m)

## DIN rail perforated

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

https://www.phoenixcontact.com/us/products/1206421

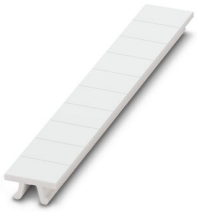


DIN rail perforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

## Zack marker strip

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

https://www.phoenixcontact.com/us/products/0803444



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

## Zack marker strip

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

https://www.phoenixcontact.com/us/products/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

## Zack marker strip

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

https://www.phoenixcontact.com/us/products/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

## Zack marker strip

Zack marker strip - ZB 8,3 CUS - 8191573

https://www.phoenixcontact.com/us/products/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

## Actuation tool

Actuation tool - ST-BW 0 - 1200135

https://www.phoenixcontact.com/us/products/1200135



Actuation tool, for all 1.5 $mm^2$ spring cages from PT 1,5/S and FT 1,5/S

## End clamp

End clamp - CLIPFIX 35 - 3022218

https://www.phoenixcontact.com/us/products/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

## End clamp

End clamp - CLIPFIX 35-5 - 3022276

https://www.phoenixcontact.com/us/products/3022276

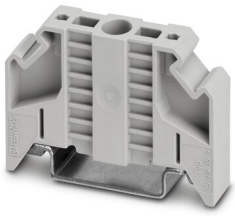


Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5. 15 mm, color: gray

## End clamp

End clamp - E/NS 35 N - 0800886

https://www.phoenixcontact.com/us/products/0800886

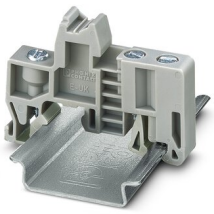


End clamp, width: 9.5 mm, color: gray

## End clamp

End clamp - E/UK - 1201442

https://www.phoenixcontact.com/us/products/1201442



End clamp, material: PA, color: gray, Mounting on a DIN rail NS 32 or NS 35

## End clamp

End clamp - E/UK 1 - 1201413

https://www.phoenixcontact.com/us/products/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

https://www.phoenixcontact.com/us/products/3270154



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270155



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270240



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270242



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270244



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270228



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270229



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270211



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270212



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270213



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270214



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270215



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270216



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270156



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270241



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270243



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

## End cover

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

https://www.phoenixcontact.com/us/products/3270245



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

## Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white



## Insulating sleeve

Insulating sleeve - MPS-IH RD - 0201676

https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red

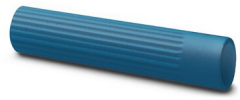


## Insulating sleeve

Insulating sleeve - MPS-IH BU - 0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue



## Insulating sleeve

Insulating sleeve - MPS-IH YE - 0201692

https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow



## Insulating sleeve

Insulating sleeve - MPS-IH GN - 0201702

https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green



## Insulating sleeve

Insulating sleeve - MPS-IH GY - 0201728

https://www.phoenixcontact.com/us/products/0201728

Insulating sleeve, color: gray



## Insulating sleeve

Insulating sleeve - MPS-IH BK - 0201731

https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black



## End cap

End cap - NS 35/ 7,5 CAP - 1206560

https://www.phoenixcontact.com/us/products/1206560

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



## DIN rail, unperforated

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

https://www.phoenixcontact.com/us/products/0801681



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile, color: silver, Pack of 25 (50 m)

## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 WH UNPERF 2000MM-VPE 10 - 1204122

https://www.phoenixcontact.com/us/products/1204122



DIN rail, unperforated, acc. to EN 60715, material: Steel, Galvanized, white passivated, Standard profile, color: silver, Pack of 10 (20 m)

## DIN rail, unperforated

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

https://www.phoenixcontact.com/us/products/0801704



DIN rail, unperforated, acc. to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver, Pack of 25 (50 m)

## DIN rail, unperforated

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

https://www.phoenixcontact.com/us/products/1206434



DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, Standard profile, color: silver, Pack of 25 (50 m)

## DIN rail, unperforated

DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM-VPE 10 - 0801762

https://www.phoenixcontact.com/us/products/0801762



DIN rail, unperforated, acc. to EN 60715, material: Copper, uncoated, Standard profile, color: copper-colored, Pack of 10 (20 m)

## Test plugs

Test plugs - MPS-MT - 0201744

https://www.phoenixcontact.com/us/products/0201744



Test plugs, with solder connection up to 1 $mm^2$ conductor cross section, color: gray

## Marker for terminal blocks

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

https://www.phoenixcontact.com/us/products/0803468



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm, Number of individual labels: 2

## Marker for terminal blocks

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

https://www.phoenixcontact.com/us/products/0803470



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm

## Marker for terminal blocks

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

https://www.phoenixcontact.com/us/products/0803471



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm

## Marker for terminal blocks

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

https://www.phoenixcontact.com/us/products/0803473



Marker for terminal blocks, white, labeled, mounting type: snapped, for terminal block width: 8 mm, lettering field size: 2.4 x 9.2 mm, Number of individual labels: 8

## Retaining bracket

Retaining bracket - CDC-PTRV - 3270167

https://www.phoenixcontact.com/us/products/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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