# Relay base - PLC-BPT-  5DC/21

2900443

https://www.phoenixcontact.com/us/products/2900443

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6.2 mm PLC basic terminal block with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 changeover contact, input voltage 5 V DC

# Relay base - PLC-BPT-  5DC/21

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## Commercial Data

| | |
|---|---|
| Item number | 2900443 |
| Packing unit | 1 pc |
| Minimum order quantity | 10 pc |
| Sales Key | C05 |
| Product Key | CK6231 |
| GTIN | 4046356507585 |
| Weight per Piece (including packing) | 30.5 g |
| Weight per Piece (excluding packing) | 27 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

## Technical Data

### Notes

| | |
|---|---|
| Notes on operation | Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or FBST 500.... |

| | |
|---|---|
| Utilization restriction | |
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |

### Product properties

| | |
|---|---|
| Product type | Relay socket |
| Application | Universal |
| Operating mode | 100% operating factor |

### Electrical properties

| | |
|---|---|
| Protective circuit | Damping diode, polarity protection diode |

### Input data

| | |
|---|---|
| Nominal input voltage $U_N$ | 5 V DC |
| Protective circuit | Freewheeling diode |

### Connection data

| | |
|---|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm |
| Conductor cross section solid | 0.14 mm² ... 2.5 mm² |
| Conductor cross section flexible | 0.14 mm² ... 2.5 mm² |
| | 0.2 mm² ... 2.5 mm² (Single ferrule) |
| | 2x 0.5 mm² ... 1 mm² (TWIN ferrule) |
| Conductor cross section AWG | 26 ... 14 |

### LED signaling

| | |
|---|---|
| Status display | LED |

### Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 80 mm |
| Depth | 94 mm |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 (Housing) |

### Approval data

| Corrosive gas test | |
|---|---|
| Identification | ISA-S71.04. G3 Harsh Group |
| | EN 60068-2-60 |

## Mounting

| Mounting type | DIN rail mounting |
|---|---|
| Mounting position | any |

## Approvals

**cUL Recognized**
Approval ID: FILE E 238705

**UL Recognized**
Approval ID: FILE E 238705

**EAC**
Approval ID: RU D-DE.B*00573/18

**DNV GL**
Approval ID: TAE0000196

| | Nominal Voltage $U_N$ | Nominal Current $I_N$ | Cross Section AWG | Cross Section mm$^2$ |
|---|---|---|---|---|
| | | | - | - |

**cULus Recognized**

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-9.0 | 27371603 |
| ECLASS-10.0.1 | 27371603 |
| ECLASS-11.0 | 27371603 |

### ETIM

| | |
|---|---|
| ETIM 8.0 | EC001456 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39122300 |

## Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
|---|---|
| | Hexahydromethylphthalic anhydride |

| China RoHS | Environmentally Friendly Use Period = 50 years |
|---|---|
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

## Mandatory Accessories

### Single relay

Single relay - REL-MR-  4,5DC/21AU - 2961370

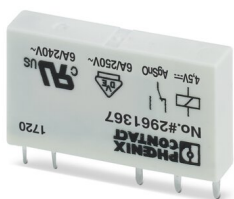https://www.phoenixcontact.com/us/products/2961370
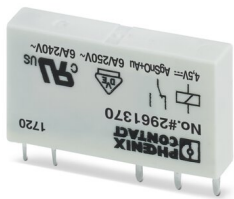
Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, input voltage 4.5 V DC

### Single relay

Single relay - REL-MR-  4,5DC/21 - 2961367

https://www.phoenixcontact.com/us/products/2961367

Plug-in miniature power relay, with power contact, 1 changeover contact, input voltage 4.5 V DC

## Miniature solid-state relay

Miniature solid-state relay - OPT- 5DC/ 24DC/ 2 - 2967989

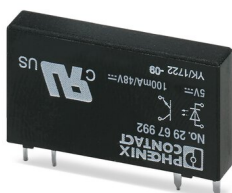https://www.phoenixcontact.com/us/products/2967989
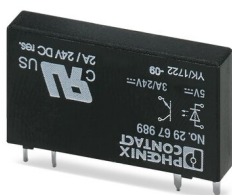
Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input voltage: 5 V DC

## Miniature solid-state relay

Miniature solid-state relay - OPT- 5DC/ 48DC/100 - 2967992

https://www.phoenixcontact.com/us/products/2967992

Plug-in miniature solid-state relay, input solid-state relay, 1 N/O contact, input voltage: 5 V DC

## Accessories

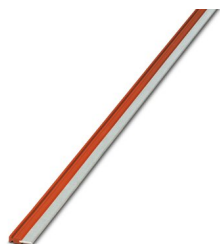ⓘ     Note: Applying some accessories below might limit this product.

## Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786

https://www.phoenixcontact.com/us/products/2966786

Continuous plug-in bridge, color: red

ℹ️ Max. current carrying capacity: 32 A

## Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC BU - 2966692

https://www.phoenixcontact.com/us/products/2966692

Continuous plug-in bridge, color: blue

ℹ️ Max. current carrying capacity: 32 A

**PHŒNIX CONTACT**

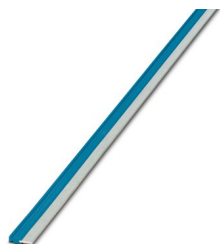## Continuous plug-in bridge

Continuous plug-in bridge - FBST 500-PLC GY - 2966838

https://www.phoenixcontact.com/us/products/2966838

Continuous plug-in bridge, color: gray

ⓘ Max. current carrying capacity: 32 A

## Single plug-in bridge

Single plug-in bridge - FBST   6-PLC RD - 2966236

https://www.phoenixcontact.com/us/products/2966236
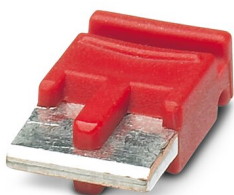
Single plug-in bridge, color: red

ⓘ Max. current carrying capacity: 6 A

## Single plug-in bridge

Single plug-in bridge - FBST   6-PLC BU - 2966812

https://www.phoenixcontact.com/us/products/2966812

Single plug-in bridge, color: blue
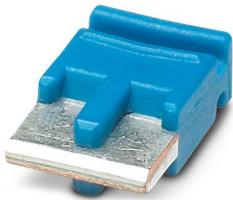
ℹ Max. current carrying capacity: 6 A

## Single plug-in bridge

Single plug-in bridge - FBST   6-PLC GY - 2966825

https://www.phoenixcontact.com/us/products/2966825

Single plug-in bridge, color: gray
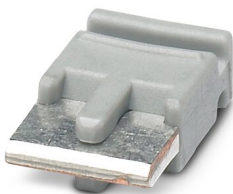
ℹ Max. current carrying capacity: 6 A

## Single plug-in bridge

Single plug-in bridge - FBST   8-PLC GY - 2967688

https://www.phoenixcontact.com/us/products/2967688

Single plug-in bridge, color: gray



ⓘ Max. current carrying capacity: 6 A

## Power terminal block

Power terminal block - PLC-ESK GY - 2966508

https://www.phoenixcontact.com/us/products/2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

## Zack marker strip

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003

https://www.phoenixcontact.com/us/products/1051003

Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## Separating plate

Separating plate - PLC-ATP BK - 2966841

https://www.phoenixcontact.com/us/products/2966841

Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

## Zack marker strip

Zack marker strip - ZB 6 CUS - 0824992

https://www.phoenixcontact.com/us/products/0824992

Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## Screwdriver

Screwdriver - SZF 1-0,6X3,5 - 1204517

https://www.phoenixcontact.com/us/products/1204517

Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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https://www.phoenixcontact.com/us/products/2900443

## Zack marker strip

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016

https://www.phoenixcontact.com/us/products/1051016

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

## System connection

System connection - PLC-V8/FLK14/OUT - 2295554

https://www.phoenixcontact.com/us/products/2295554

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

## Zack marker strip

Zack marker strip - ZB 6,QR:FORTL.ZAHLEN - 1051029

https://www.phoenixcontact.com/us/products/1051029
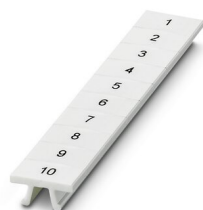
Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6. 15 x 10.5 mm, Number of individual labels: 10

## System connection

System connection - PLC-V8/FLK14/OUT/M - 2304102

https://www.phoenixcontact.com/us/products/2304102

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: IDC/FLK pin strip 1x 14-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: minusschaltend

# Relay base - PLC-BPT- 5DC/21

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https://www.phoenixcontact.com/us/products/2900443

## Zack marker strip

Zack marker strip - ZB 6,LGS:GLEICHE ZAHLEN - 1051032

https://www.phoenixcontact.com/us/products/1051032

Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: Identical numbers 1 or 2, etc. up to 100, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## Adapter module

Adapter module - PLC-V8/D15S/OUT - 2296058

https://www.phoenixcontact.com/us/products/2296058

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: D-SUB pin strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

## Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:L1-N,PE - 1051414

https://www.phoenixcontact.com/us/products/1051414

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## System connection

System connection - PLC-V8/D15B/OUT - 2296061

https://www.phoenixcontact.com/us/products/2296061

V8 adapter for 8 x PLC-INTERFACE (6.2 mm), controller: PLC system cabling of output cards, connection 1: Screw connection 1x, connection 2: D-SUB socket strip 1x 15-position, connection 3: Plug-in connection (Can be snapped onto 8x PLC-INTERFACE terminals), number of channels: 8, control logic: plusschaltend

# Relay base - PLC-BPT- 5DC/21

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https://www.phoenixcontact.com/us/products/2900443

## Marker for terminal blocks

Marker for terminal blocks - ZB 6,LGS:U-N - 1051430
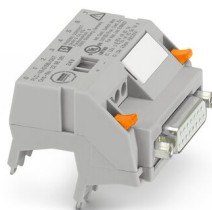
https://www.phoenixcontact.com/us/products/1051430

Marker for terminal blocks, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, printed horizontally: U, V, W, N, GND, U, V, W, N, GND, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 6.15 x 10.5 mm, Number of individual labels: 10

## Fuse adapter

Fuse adapter - PLC-FA-5X20 - 1186510

https://www.phoenixcontact.com/us/products/1186510

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: Universal. Without fuse failure indication.

## Marker for terminal blocks

Marker for terminal blocks - UC-TM  6 - 0818085

https://www.phoenixcontact.com/us/products/0818085

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

## Fuse adapter

Fuse adapter - PLC-FA-I-5X20-12-24UC - 1186499

https://www.phoenixcontact.com/us/products/1186499

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 12 ... 24 V AC/DC. With LED for fuse failure indication.

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https://www.phoenixcontact.com/us/products/2900443

## Marker for terminal blocks

Marker for terminal blocks - UC-TM 6 CUS - 0824589

https://www.phoenixcontact.com/us/products/0824589

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 80

## Fuse adapter

Fuse adapter - PLC-FA-I-5X20-120-230UC - 1186508

https://www.phoenixcontact.com/us/products/1186508

Safety plug adapter for use on a 6.2 mm PLC basic terminal block. For 5 x 20 mm fuses. Operating voltage: 120 ... 230 V AC/DC. With LED for fuse failure indication.

## Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 - 0828736

https://www.phoenixcontact.com/us/products/0828736

Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

## Marker for terminal blocks

Marker for terminal blocks - UCT-TM 6 CUS - 0829602

https://www.phoenixcontact.com/us/products/0829602

Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 6.2 mm, lettering field size: 5.6 x 10.5 mm, Number of individual labels: 60

## 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, 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)

# Relay base - PLC-BPT- 5DC/21

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https://www.phoenixcontact.com/us/products/2900443

## 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, 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 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)

## 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)

## 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 perforated

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730

https://www.phoenixcontact.com/us/products/1201730

DIN rail perforated, similar 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 35/15 UNPERF 2000MM - 1201714

https://www.phoenixcontact.com/us/products/1201714

DIN rail, unperforated, similar 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 35/15 WH PERF 2000MM - 0806602

https://www.phoenixcontact.com/us/products/0806602

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

## DIN rail, unperforated

DIN rail, unperforated - NS 35/15 WH UNPERF 2000MM-VPE 10 - 1204135

https://www.phoenixcontact.com/us/products/1204135

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

## DIN rail, unperforated

DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756

https://www.phoenixcontact.com/us/products/1201756

DIN rail, unperforated, similar to EN 60715, material: Aluminum, uncoated, Standard profile, color: silver

## DIN rail perforated

DIN rail perforated - NS 35/15 ZN PERF 2000MM - 1206599

https://www.phoenixcontact.com/us/products/1206599

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

## DIN rail, unperforated

DIN rail, unperforated - NS 35/15 ZN UNPERF 2000MM - 1206586

https://www.phoenixcontact.com/us/products/1206586

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

## DIN rail, unperforated

DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM-VPE 10 - 1201895

https://www.phoenixcontact.com/us/products/1201895

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

## End cap

End cap - NS 35/15 CAP - 1206573

https://www.phoenixcontact.com/us/products/1206573

DIN rail end piece, for DIN rail NS 35/15

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## DIN rail, unperforated

DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM-VPE 10 - 1201798

https://www.phoenixcontact.com/us/products/1201798

DIN rail, unperforated, acc. to EN 60715, material: Steel, galvanized, passivated with a thick layer, Standard profile 2.3 mm, color: silver, Pack of 10 (20 m)

Phoenix Contact USA

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