

## Relay socket - PLC-BPT-TTL/1 - 2900458

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6.2 mm PLC basic terminal block for TTL signal with push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 1 N/O contact, input voltage TTL (5 V DC)

The figure shows a version with a screw connection

### Product Features

- ✓ 6.2 mm narrow design width
- ✓ Screw and spring-cage connection
- ✓ RT III protection
- ✓ Safe isolation according to EN 50178 (VDE 0160)
- ✓ Bridging options
- ✓ 4 kVrms electrical isolation between coil and contact
- ✓ Status indicator



### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 26.0 GRM |
| Custom tariff number                 | 85369010 |
| Country of origin                    | Germany  |

### Technical data

#### Note

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

#### Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |

# Relay socket - PLC-BPT-TTL/1 - 2900458

## Technical data

### Dimensions

|       |       |
|-------|-------|
| Depth | 94 mm |
|-------|-------|

### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -20 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

### Input data

|                                             |              |
|---------------------------------------------|--------------|
| Rated control supply voltage $U_s$          | 5 V DC       |
| Voltage range with reference to $U_s$       | 0.9 ... 1.2  |
| Rated control supply current $I_s$          | 41 mA        |
| Rated actuating voltage $U_c$               | 5 V DC (TTL) |
| Voltage range with reference to $U_c$       | 0.9 ... 1.2  |
| Rated actuating current $I_c$               | 2.5 mA       |
| Rated actuating voltage $U_c$               | 5 V DC (TTL) |
| Rated actuating current $I_c$               | 2.5 mA       |
| Rated control supply voltage $U_s$          | 5 V DC       |
| Voltage range with reference to $U_s$       | 0.9 ... 1.2  |
| Rated control supply current $I_s$          | 11.5 mA      |
| Switching level 1 signal ("H") (TTL signal) | > 2 V DC     |
| Switching level 0 signal ("L") (TTL signal) | < 0.8 V DC   |
| Nominal input voltage $U_N$                 | 5 V DC (TTL) |
| Surge voltage protection                    | > 6.5 V      |
| Transmission frequency                      | 1000 Hz      |
| Surge voltage protection                    | > 6.5 V      |

### Connection data

|                                        |                      |
|----------------------------------------|----------------------|
| 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 stranded min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 26                   |
| Conductor cross section AWG/kcmil max  | 14                   |
| Connection method                      | Push-in connection   |
| Stripping length                       | 8 mm                 |

### General

|                                         |                       |
|-----------------------------------------|-----------------------|
| Color                                   | green                 |
| Operating mode                          | 100% operating factor |
| Inflammability class according to UL 94 | V0                    |

## Relay socket - PLC-BPT-TTL/1 - 2900458

### Technical data

#### General

|                       |                           |
|-----------------------|---------------------------|
| Mounting position     | any                       |
| Assembly instructions | In rows with zero spacing |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371001 |
| eCl@ss 4.1 | 27371001 |
| eCl@ss 5.0 | 27371603 |
| eCl@ss 5.1 | 27371603 |
| eCl@ss 6.0 | 27371603 |
| eCl@ss 7.0 | 27371603 |
| eCl@ss 8.0 | 27371603 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC001456 |
| ETIM 5.0 | EC001456 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211917 |
| UNSPSC 7.0901 | 39121516 |
| UNSPSC 11     | 39121516 |
| UNSPSC 12.01  | 39121516 |
| UNSPSC 13.2   | 39121516 |

### Approvals

#### Approvals

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#### Approvals

UL Recognized / cUL Recognized / cULus Recognized

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#### Ex Approvals

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#### Approvals submitted

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## Relay socket - PLC-BPT-TTL/1 - 2900458

### Approvals

#### Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 

### Accessories

#### Accessories

##### Bridge

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



Continuous plug-in bridge, Length: 500 mm, Color: red

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



Continuous plug-in bridge, Length: 500 mm, Color: blue

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



Continuous plug-in bridge, Length: 500 mm, Color: gray

## Relay socket - PLC-BPT-TTL/1 - 2900458

### Accessories

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



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red

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



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue

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



Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray

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



Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray

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### Labeled terminal marker

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



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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## Relay socket - PLC-BPT-TTL/1 - 2900458

### Accessories

#### Mounting rail

DIN rail, unperforated - NS 35/ 7,5 V2A UNPERF 2000MM - 0801377



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

## Relay socket - PLC-BPT-TTL/1 - 2900458

### Accessories

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



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

### Partition plate

Separating plate - PLC-ATP BK - 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

## Relay socket - PLC-BPT-TTL/1 - 2900458

### Accessories

#### Power module

Power terminal block - PLC-ESK GY - 2966508



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

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### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 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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### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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### Required add-on products

## Relay socket - PLC-BPT-TTL/1 - 2900458

### Accessories

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



Plug-in miniature power relay, with multi-layer gold contact, 1 PDT, input voltage 4.5 V DC

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



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

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



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

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



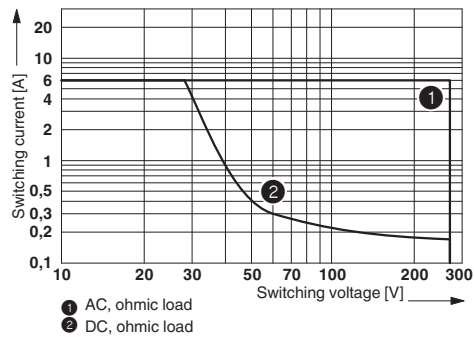
Plug-in miniature solid-state relay, power solid-state relay, 1 N/O contact, input voltage: 5 V DC

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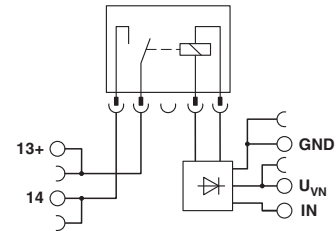
### Drawings

## Relay socket - PLC-BPT-TTL/1 - 2900458

Diagram

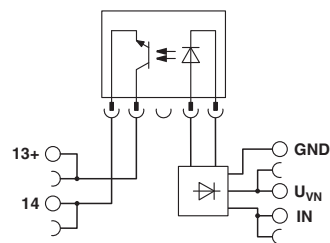


Circuit diagram



Max. interrupting rating

Circuit diagram





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Электрон  
Связь**

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**Наши контакты:**

**Телефон:** +7 812 627 14 35

**Электронная почта:** [sales@st-electron.ru](mailto:sales@st-electron.ru)

**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331