

## Feed-through terminal block - PT 6 - 3211813

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Feed-through terminal block, Connection method: Push-in connection, Cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, Width: 8.2 mm, Height: 42.2 mm, Color: gray, Mounting type: NS 35/7,5, NS 35/15

### Product Features

- ✓ The push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors
- ✓ The compact design and front connection enable wiring in a confined space
- ✓ In addition to the testing facility in the double function shaft, all terminal blocks provide an additional test connection
- ✓ Tested for railway applications



### Key commercial data

|                        |   |
|------------------------|---|
| Packing unit           | 1 PCE   |
| Minimum order quantity | 50 PCE  |
| GTIN                   | <br>4 046356 494656 |
| Custom tariff number   | 85369010  |
| Country of origin      | POLAND  |

### Technical data

#### General

|   |      |
|---|------|
| Number of levels                        | 1    |
| Number of connections                   | 2    |
| Color                                   | gray |
| Insulating material                     | PA   |
| Inflammability class according to UL 94 | V0   |

#### Dimensions

|       |        |
|-------|--------|
| Width | 8.2 mm |
|-------|--------|

## Feed-through terminal block - PT 6 - 3211813

### Technical data

#### Dimensions

|                  |         |
|------------------|---------|
| Length           | 57.7 mm |
| Height           | 42.2 mm |
| Height NS 35/7,5 | 43.5 mm |
| Height NS 35/15  | 51 mm   |

#### Technical data

|   |  |
|---|--|
| Maximum load current  | 52 A (with 10 mm <sup>2</sup> conductor cross section) |
| Rated surge voltage   | 8 kV   |
| Pollution degree  | 3  |
| Surge voltage category  | III  |
| Insulating material group   | I  |
| Connection in acc. with standard  | IEC 60947-7-1  |
| Nominal current I <sub>N</sub>  | 41 A   |
| Nominal voltage U <sub>N</sub>  | 1000 V   |
| Open side panel   | ja   |
| Shock protection test specification   | DIN EN 50274 (VDE 0660-514):2002-11                    |
| Back of the hand protection   | guaranteed   |
| Finger protection   | guaranteed   |
| Surge voltage test setpoint   | 9.8 kV   |
| Result of surge voltage test  | Test passed  |
| Power frequency withstand voltage setpoint                                      | 2.2 kV   |
| Result of power-frequency withstand voltage test                                | Test passed  |
| Checking the mechanical stability of terminal points (5 x conductor connection) | Test passed  |
| Bending test rotation speed   | 10 rpm   |
| Bending test turns  | 135  |
| Bending test conductor cross section/weight                                     | 0.5 mm <sup>2</sup> / 0.3 kg                           |
| Bending test conductor cross section/weight                                     | 6 mm <sup>2</sup> / 1.4 kg                             |
| Bending test conductor cross section/weight                                     | 10 mm <sup>2</sup> / 2 kg                              |
| Result of bending test  | Test passed  |
| Conductor cross section tensile test  | 0.5 mm <sup>2</sup>                                    |
| Tractive force setpoint   | 20 N   |
| Conductor cross section tensile test  | 6 mm <sup>2</sup>                                      |
| Tractive force setpoint   | 80 N   |
| Conductor cross section tensile test  | 10 mm <sup>2</sup>                                     |
| Tractive force setpoint   | 90 N   |
| Tensile test result   | Test passed  |
| Tight fit on carrier  | NS 35  |

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### Technical data

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|   |  |
|---|--|
| Setpoint  | 5 N  |
| Result of tight fit test  | Test passed                                      |
| Requirements, voltage drop  | ≤ 3.2 mV   |
| Result of voltage drop test   | Test passed                                      |
| Temperature-rise test   | Test passed                                      |
| Conductor cross section short circuit testing                         | 6 mm <sup>2</sup>                                |
| Short-time current  | 0.72 kA  |
| Conductor cross section short circuit testing                         | 10 mm <sup>2</sup>                               |
| Short-time current  | 1.2 kA   |
| Short circuit stability result  | Test passed                                      |
| Ageing test for screwless modular terminal block temperature cycles   | 192  |
| Result of aging test  | Test passed                                      |
| Proof of thermal characteristics (needle flame) effective duration    | 30 s   |
| Result of thermal test  | Test passed                                      |
| Test specification, oscillation, broadband noise                      | DIN EN 50155 (VDE 0115-200):2008-03              |
| Test spectrum   | Service life test category 2, class B, on bogie  |
| Test frequency  | f <sub>1</sub> = 5 Hz to f <sub>2</sub> = 150 Hz |
| ASD level   | 11.83 (m/s <sup>2</sup> ) <sup>2</sup> /Hz       |
| Acceleration  | 4.25 g   |
| Test duration per axis  | 5 h  |
| Test directions   | X-, Y- and Z-axis                                |
| Oscillation, broadband noise test result                              | Test passed                                      |
| Test specification, shock test  | DIN EN 50155 (VDE 0115-200):2008-03              |
| Shock form  | Half-sine  |
| Acceleration  | 30 g   |
| Shock duration  | 18 ms  |
| Number of shocks per direction  | 3  |
| Test directions   | X-, Y- and Z-axis (pos. and neg.)                |
| Shock test result   | Test passed                                      |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 130 °C   |
| Static insulating material application in cold                        | -60 °C   |

#### Connection data

|  |                     |
|--|---------------------|
| Conductor cross section solid min.     | 0.5 mm <sup>2</sup> |
| Conductor cross section solid max.     | 10 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 20                  |
| Conductor cross section AWG/kcmil max  | 8                   |

## Feed-through terminal block - PT 6 - 3211813

### Technical data

#### Connection data

|   |                     |
|---|---------------------|
| Conductor cross section stranded min.   | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded max.   | 6 mm <sup>2</sup>   |
| Min. AWG conductor cross section, stranded  | 20                  |
| Max. AWG conductor cross section, stranded  | 10                  |
| Conductor cross section stranded, with ferrule without plastic sleeve min.              | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule without plastic sleeve max.              | 6 mm <sup>2</sup>   |
| Conductor cross section stranded, with ferrule with plastic sleeve min.                 | 0.5 mm <sup>2</sup> |
| Conductor cross section stranded, with ferrule with plastic sleeve max.                 | 6 mm <sup>2</sup>   |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, min. | 0.5 mm <sup>2</sup> |
| 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve, max. | 1.5 mm <sup>2</sup> |
| Connection method   | Push-in connection  |
| Stripping length  | 12 mm               |
| Internal cylindrical gage   | A5                  |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC000897 |
| ETIM 5.0 | EC000897 |

#### UNSPSC

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

## Feed-through terminal block - PT 6 - 3211813

### Accessories

#### Accessories

#### Assembly

Partition plate - ATP-ST 6 - 3024481



Partition plate, Length: 75 mm, Width: 2 mm, Height: 49 mm, Color: gray

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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 - NS 35/ 7,5 UNPERF 2000MM - 0801681



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

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



DIN rail 35 mm (NS 35)

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



DIN rail 35 mm (NS 35)

## Feed-through terminal block - PT 6 - 3211813

### Accessories

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



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

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



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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



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

---

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



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

---

## Feed-through terminal block - PT 6 - 3211813

### Accessories

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

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DIN rail - 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 - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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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

---

## Feed-through terminal block - PT 6 - 3211813

### Accessories

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



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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



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

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DIN rail - 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

---

End cap - NS 35/15 CAP - 1206573



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

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DIN rail - 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

---



## Feed-through terminal block - PT 6 - 3211813

### Accessories

End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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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

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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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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

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End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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### Bridges

## Feed-through terminal block - PT 6 - 3211813

### Accessories

Plug-in bridge - FBS 10-8 - 3030323



Plug-in bridge, Number of positions: 10, Color: red

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Plug-in bridge - FBS 5-8 - 3030310



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 4-8 - 3030307



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 3-8 - 3030297



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, Number of positions: 2, Color: red

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

Plug-in bridge - FBS 6-8 - 3032470



Plug-in bridge, Number of positions: 6, Color: red

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Reducing bridge - RB ST 6-1,5/S - 3213250



Reducing bridge, Number of positions: 2, Color: red

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Switching jumper - SB-MER 2-8 - 3000587



Switching jumper, Width: 16.4 mm, Length: 24.7 mm, Number of positions: 2, Color: gray/orange

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Switching jumper - SB-MER 3-8 - 3000588



Switching jumper, Width: 24.6 mm, Length: 24.7 mm, Number of positions: 3, Color: gray/orange

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Switching jumper - SB-MER 4-8 - 3000589



Switching jumper, Width: 32.8 mm, Length: 24.7 mm, Number of positions: 4, Color: gray/orange

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

Plug-in bridge - FBSRH 2-8 - 3033802



Plug-in bridge, Number of positions: 2, Color: red

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Plug-in bridge - FBSRH 3-8 - 3033803



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBSRH 4-8 - 3033804



Plug-in bridge, Number of positions: 4, Color: red

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### Covers

End cover - D-PT 6 - 3212044



End cover, Length: 57.7 mm, Width: 2.2 mm, Height: 42 mm, Color: gray

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Spacer plate - DP PS-8 - 3036741



Spacer plate, Color: red

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

#### Marking

Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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Zack marker strip - ZB 8 CUS - 0825011



Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

---

Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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Marker for terminal blocks - UC-TM 8 CUS - 0824597



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

#### Marker for terminal blocks - UCT-TM 8 CUS - 0829616



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: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Zack Marker strip, flat - ZBF 8:UNBEDRUCKT - 0808781



Zack Marker strip, flat, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 8 mm, Lettering field: 5.15 x 8.15 mm

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#### Zack Marker strip, flat - ZBF 8 CUS - 0825030



Zack Marker strip, flat, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8 mm, Lettering field: 5.15 x 8.15 mm

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#### Marker for terminal blocks - UC-TMF 8 - 0818137



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 5.1 mm

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#### Marker for terminal blocks - UC-TMF 8 CUS - 0824654



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 5.1 mm

## Feed-through terminal block - PT 6 - 3211813

### Accessories

#### Marker for terminal blocks - UCT-TMF 8 - 0828748



Marker for terminal blocks. Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.4 x 4.7 mm

#### Marker for terminal blocks - UCT-TMF 8 CUS - 0829672



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into flat marker groove, For terminal block width: 8.2 mm, Lettering field: 7.4 x 4.7 mm

#### Marker for terminal blocks - TMT (EX9,5)R - 0828295



Marker for terminal blocks, Roll, white, Unlabeled, Can be labeled with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, Mounting type: Snap into universal marker groove, Snap into flat marker groove, Lettering field: 9.5 x 50000 mm

### Plug/Adapter

#### Reducing bridge - RB ST 6-(2,5/4) - 3030860



Reducing bridge, Number of positions: 2, Color: red

#### Test plugs - MPS-MT - 0201744



Test plugs

## Feed-through terminal block - PT 6 - 3211813

### Accessories

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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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

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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Test adapter - PAI-4-N GY - 3032871



Test adapter, Color: gray

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Test adapter - PAI-4-FIX BU - 3032729



Test adapter, Color: blue

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Test adapter - PAI-4-FIX OG - 3034455



Test adapter, Color: orange

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

Test adapter - PAI-4-FIX YE - 3032745



Test adapter, Color: yellow

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Test adapter - PAI-4-FIX RD - 3032732



Test adapter, Color: red

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Test adapter - PAI-4-FIX GN - 3032758



Test adapter, Color: green

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Test adapter - PAI-4-FIX BK - 3032774



Test adapter, Color: black

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Test adapter - PAI-4-FIX GY - 3032790



Test adapter, Color: gray

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

Test adapter - PAI-4-FIX VT - 3032761



Test adapter, Color: violet

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Test adapter - PAI-4-FIX BN - 3032787



Test adapter, Color: brown

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Test adapter - PS-8 - 3031005



Test adapter, Color: red

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Test adapter - PS-8/2,3MM RD - 3048564



Test adapter, Color: red

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### Software

Software - CLIP-PROJECT ADVANCED - 5146040



Multilingual software for easy planning of Phoenix Contact on DIN rails together with the integrated TRABTECH-select software module for planning comprehensive surge protection concepts.

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## Feed-through terminal block - PT 6 - 3211813

### Accessories

Software - CLIP-PROJECT PROFESSIONAL - 5146053



Multi-lingual software for terminal strip project planning. A marking module allows professional labeling of markers and labels for marking terminal blocks, conductors, cables and devices. The additionally integrated software module TRABTECH-select for planning comprehensive surge protection concepts.

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### Tools

Screwdriver - SZF 2-0,8X4,0 - 1204520



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.8 x 4.0 x 100 mm, 2-component grip, with non-slip grip

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Mounting material - PT-IL - 3208090

Operating decal for the Push-in Technology



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### Drawings

Circuit diagram

