# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Product image

A protective feed through terminal block is an electrical conductor for the purpose of safety and is used in many applications. To establish the electrical and mechanical connection between copper conductors and the mounting support plate, PE terminal blocks are used. They have one or more contact points for connection with and/or bifurcation of protective earth conductors.

### General ordering data

| | |
|---|---|
| Version | PE terminal, Tension-clamp connection, 6 mm², 720 A (6 mm²), Green/yellow |
| Order No. | 1608670000 |
| Type | ZPE 6 |
| GTIN (EAN) | 4008190259242 |
| Qty. | 50 pc(s). |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 45 mm | Depth (inches) | 1.772 inch |
| Depth including DIN rail | 45.5 mm | Height | 65 mm |
| Height (inches) | 2.559 inch | Width | 8.1 mm |
| Width (inches) | 0.319 inch | Net weight | 21.63 g |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

### Material data

| | | | |
|---|---|---|---|
| Material | Wemid | Colour | Green/yellow |
| UL 94 flammability rating | V-0 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | DEMKO15ATEX1467U | Certificate No. (IECEX) | IECEXULD15.0008U |
| Wire cross section max. (ATEX) | 10 mm² | Wire cross section max. (IECEX) | 10 mm² |
| Operating temperature range | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7 | Ex eb II C Gb |
| Ex 2014/34/EU label | II 2 G D | | |

### System specifications

| | | | |
|---|---|---|---|
| Version | Tension-clamp connection, With PE connection, One end without connector | End cover plate required | Yes |
| Number of levels | 1 | Number of clamping points per level | 2 |
| Levels cross-connected internally | No | PE connection | Yes |
| Rail | TS 35 | PE function | Yes |
| PEN function | No | | |

### Additional technical data

| | | | |
|---|---|---|---|
| Explosion-tested version | Yes | Number of similar terminals | 1 |
| Open sides | right | Type of mounting | Snap-on |

### CSA rating data

| | | | |
|---|---|---|---|
| Certificate No. (CSA) | 200039-1152892 | Wire cross section max. (CSA) | 8 AWG |
| Wire cross section min. (CSA) | 20 AWG | | |

### Conductors for clamping (additional connection)

| | | | |
|---|---|---|---|
| Connection direction | top | Connection type, additional connection | Tension-clamp connection |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Blade size | 0.6 x 3.5 mm | Clamping range, max. | 10 mm² |
| Clamping range, min. | 0.22 mm² | Connection cross-section, stranded, max. | 10 mm² |
| Connection cross-section, stranded, min. | 1.5 mm² | Connection direction | top |
| Gauge to IEC 60947-1 | A5 | Number of connections | 2 |
| Stripping length | 13 mm | Type of connection | Tension-clamp connection |
| Wire connection cross section AWG, max. | AWG 8 | Wire connection cross section AWG, min. | AWG 22 |
| Wire connection cross section, finely stranded, max. | 10 mm² | Wire connection cross section, finely stranded, min. | 0.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 6 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 6 mm² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm² |
| Wire connection cross-section, solid core, max. | 10 mm² | Wire connection cross-section, solid core, min. | 0.5 mm² |

### Dimensions

| | |
|---|---|
| TS 35 offset | 39 mm |

### General

| | | | |
|---|---|---|---|
| Rail | TS 35 | Standards | IEC 60947-7-2 |
| Wire connection cross section AWG, max. | AWG 8 | Wire connection cross section AWG, min. | AWG 22 |

### PE rating data

| | | | |
|---|---|---|---|
| Rated short-time current | 720 A (6 mm²) | PEN function | No |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 6 mm² | Rated voltage to adjoining terminal | 800 V |
| Rated DC voltage | 800 V | Standards | IEC 60947-7-2 |
| Volume resistance according to IEC 60947-7-x | 0.78 mΩ | Rated impulse withstand voltage to adjacent terminal | 8 kV |
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Pollution severity | 3 |

### UL rating data

| | |
|---|---|
| Certificate No. (cURus) | E60693 |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC000901 | ETIM 7.0 | EC000901 |
| ETIM 8.0 | EC000901 | ETIM 9.0 | EC000901 |
| ECLASS 9.0 | 27-14-11-41 | ECLASS 9.1 | 27-14-11-41 |
| ECLASS 10.0 | 27-14-11-41 | ECLASS 11.0 | 27-14-11-41 |
| ECLASS 12.0 | 27-14-11-41 | ECLASS 13.0 | 27-25-01-03 |
| ECLASS 14.0 | 27-25-01-03 | | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Technical data

### Environmental Product Compliance

| | |
|---|---|
| REACH SVHC | / |
| RoHS Compliance Status | Compliant without exemption |

### Approvals

Approvals

| | |
|---|---|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E60693 |
| Certificate No. (cURusEX) | E184763 |

### Downloads

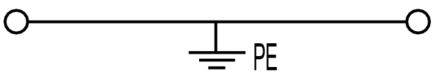
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Attestation of Conformity<br>UKCA Ex Attestation of Conformity<br>IECEx Certificate<br>CB Test Certificate<br>CB Certificate<br>Lloyds Register Certificate<br>CCC Ex Certificate<br>ATEX Certificate<br>UKCA Ex Certificate<br>RINA Certificate<br>Declaration of Conformity<br>UKCA declaration of conformity<br>Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| Product Change Notification | PCN_ZPE_Q2_2021 - EN<br>PCN_ZPE_Q2_2021 - DE<br>Product Change Notification ZPE Q1/2022 DE<br>Product Change Notification Q1/2022 EN<br>PCN ZDU6 ZPE6 ATEX IECEx change |
| User Documentation | StorageConditionsTerminalBlocks<br>NTI ZDU/ZPE 6<br>User Manual Z-Series |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

## ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Drawings



# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### Blank

ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

- Hinged marker area
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

#### General ordering data

| | | |
|---|---|---|
| Type | ZS 15/5 MC NE WS | Version |
| Order No. | 1646630000 | ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190401214 | Allen-Bradley, white |
| Qty. | 480 pc(s). | |

### Marker holder

The marker holder offer the possibility of additional mounting of standard markers with a pitch of 5 or 5.1 mm. The angled holders can be optionally snaped together and could be mounted in all standard marking channels of the Klippon® Connect modular terminal blocks. Fitting marker types could be found under the respective accessories of the designation marking holder.

#### General ordering data

| | | |
|---|---|---|
| Type | BZT 1 ZA WS 10/5 | Version |
| Order No. | 1805520000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248 | |
| Qty. | 100 pc(s). | |
| Type | BZT 1 WS 10/5 | Version |
| Order No. | 1805490000 | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231 | |
| Qty. | 100 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### Z-Series

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

| | | |
|---|---|---|
| Type | ZEW 35/2 | Version |
| Order No. | 8630740000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4032248348916 | |
| Qty. | 20 pc(s). | |
| Type | ZEW 35 | Version |
| Order No. | 9540000000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 6 mm, 100 °C |
| GTIN (EAN) | 4008190956264 | |
| Qty. | 20 pc(s). | |

### ZGB pivotable group tag holder

The ZGB 15 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 15.
The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.
Inlay tags and protective strips can be found under "Accessories".

### General ordering data

| | | |
|---|---|---|
| Type | ZGB 30/3.5 | Version |
| Order No. | 1778290000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 3.50 |
| GTIN (EAN) | 4032248161065 | white |
| Qty. | 20 pc(s). | |
| Type | ZGB 15 | Version |
| Order No. | 1636530000 | Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190297053 | Weidmueller, white |
| Qty. | 20 pc(s). | |
| Type | ZGB 30 | Version |
| Order No. | 1611930000 | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190002251 | Weidmueller, white |
| Qty. | 20 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### DEK 5/8

**WS/ DEK**
MultiMark terminal markers use an innovative composite material made from two components. The hard base contour of the marker snaps securely into the connector. The elastic surface finish makes the marker easy to mount. This specially punched material enables the strips to be stretched to accommodate the slight variations in spacing that tend to add up, especially with long terminal blocks. Another advantage: the excellent printability of the surface material guarantees durable and wear-resistant labelling. A print resolution of 300 dpi also produces a very legible script.
**Your benefits with MultiMark**

- Firm hold and durable printing
- Continuous strips save installation time
- Easy mounting thanks to an innovative composite material
- Large label field for optimal legibility
- High flexibility thanks to manufacturer independence

#### General ordering data

| | | |
|---|---|---|
| Type | DEK 5/8 MM WS | Version |
| Order No. | 2007130000 | Dekafix, Terminal marker, 5 x 8 mm, Weidmueller, white |
| GTIN (EAN) | 4050118392012 | |
| Qty. | 500 pc(s). | |

### Z-Series

Z
Series

Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

#### General ordering data

| | | |
|---|---|---|
| Type | ZTA 3 ZDU6 | Version |
| Order No. | 1654050000 | Accessories, Test adapter, 9 A |
| GTIN (EAN) | 4008190420406 | |
| Qty. | 25 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### Z-Series

Warning covers with a flash symbol provide more safety for man and machine. They are used where external voltage must be indicated within the application.

#### General ordering data

| | | |
|---|---|---|
| Type | ZAD 3/4 | Version |
| Order No. | 1609120000 | Z-series, Cover |
| GTIN (EAN) | 4008190209056 | |
| Qty. | 20 pc(s). | |

### Blank

ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

- Hinged marker area
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

#### General ordering data

| | | |
|---|---|---|
| Type | ZS 12/6 MC NE WS | Version |
| Order No. | 1610020000 | ZS, Terminal marker, 12 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4008190444600 | Allen-Bradley, white |
| Qty. | 400 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### STR transparent strips

### General ordering data

| | | |
|---|---|---|
| Type | STR 7 F.SCHT 7 | Version |
| Order No. | 0515300000 | Terminal markers, Protective cap, 27 x 6.3 mm, Transparent |
| GTIN (EAN) | 4008190182175 | |
| Qty. | 20 pc(s). | |

### Blank

The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

| | | |
|---|---|---|
| Type | DEK 5/8 MC NE WS | Version |
| Order No. | 1856740000 | Dekafix, Terminal marker, 5 x 8 mm, Pitch in mm (P): 8.00 |
| GTIN (EAN) | 4032248400850 | Weidmueller, white |
| Qty. | 800 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### 6 mm²

End plates are fitted to the open side of the last modular terminal before the end bracket. The use of an end plate ensures the function of the modular terminal and the specified rated voltage. It guarantees protection against contact with live parts and makes the final terminal finger-proof.

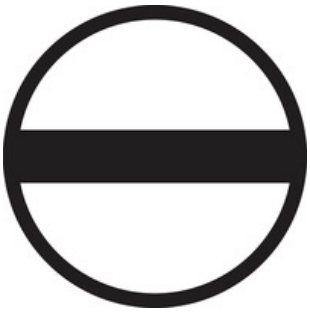
#### General ordering data

| | | |
|---|---|---|
| Type | ZAP/TW 5 BL | Version |
| Order No. | 1608840000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190207038 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 5 OR | Version |
| Order No. | 1608850000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190208356 | |
| Qty. | 50 pc(s). | |

| | | |
|---|---|---|
| Type | ZAP/TW 5 | Version |
| Order No. | 1608830000 | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190207045 | |
| Qty. | 50 pc(s). | |

### Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

#### General ordering data

| | | |
|---|---|---|
| Type | SDS 1.0X5.5X150 | Version |
| Order No. | 2749380000 | Screwdriver, Blade width (B): 5.5 mm, Blade length: 150 mm, Blade |
| GTIN (EAN) | 4050118895605 | thickness (A): 1 mm |
| Qty. | 1 pc(s). | |

# ZPE 6

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

## Accessories

### SAK-Series

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

| | | |
|---|---|---|
| Type | EW 35 GR 7032 | Version |
| Order No. | 0383530000 | End bracket, grey, TS 35, V-0, Wemid, Width: 9 mm, 120 °C |
| GTIN (EAN) | 4008190027322 | |
| Qty. | 50 pc(s). | |
| Type | EW 35/SCHA/M3 | Version |
| Order No. | 0258660000 | End bracket, beige, TS 35, V-2, Wemid, Width: 16.5 mm, 100 °C |
| GTIN (EAN) | 4008190033477 | |
| Qty. | 20 pc(s). | |
| Type | EW 35 | Version |
| Order No. | 0383560000 | End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C |
| GTIN (EAN) | 4008190181314 | |
| Qty. | 50 pc(s). | |

### W-Series

Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

| | | |
|---|---|---|
| Type | WEW 35/1 | Version |
| Order No. | 1059000000 | End bracket, dark beige, TS 35, V-2, Wemid, Width: 12 mm, 100 °C |
| GTIN (EAN) | 4008190172282 | |
| Qty. | 50 pc(s). | |
| Type | WEW 35/2 | Version |
| Order No. | 1061200000 | End bracket, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C |
| GTIN (EAN) | 4008190030230 | |
| Qty. | 50 pc(s). | |