

**WPD 230 2X50/2X50 GN****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Klippon® Connect power feed-in terminal blocks WPD allow for an easy and safe installation of aluminium and copper conductors on a small footprint. A power supply or monitoring connection can also be used as an option. Customers can use the power feed-in terminal blocks WPD, regardless of the conductor material. They can be mounted either directly or on DIN rail TS35.

**General ordering data**

|            |  |
|------------|--|
| Version    | Potential distributor terminal, Screw connection, 50, 1000 V, 150 A, Number of poles: 1, green |
| Order No.  | <a href="#">2502600000</a>   |
| Type       | WPD 230 2X50/2X50 GN   |
| GTIN (EAN) | 4050118516425  |
| Qty.       | 5 pc(s).   |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 45 mm   | Depth (inches)  | 1.772 inch |
| Height     | 70 mm   | Height (inches) | 2.756 inch |
| Width      | 35.6 mm | Width (inches)  | 1.402 inch |
| Net weight | 66 g    |                 |            |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
| Continuous operating temp., max. | 120 °C         |                                  |        |

## Material data

|                           |       |        |       |
|---------------------------|-------|--------|-------|
| Material                  | Wemid | Colour | green |
| UL 94 flammability rating | V-0   |        |       |

## Rating data IECEx/ATEX

|                                |                    |                         |                  |
|--------------------------------|--------------------|-------------------------|------------------|
| Certificate No. (ATEX)         | CNEX18ATEX0016U    | Certificate No. (IECEX) | IECEXNEX18.0010U |
| Max. voltage (ATEX)            | 880 V              | Current (ATEX)          | 150 A            |
| Wire cross section max. (ATEX) | 50 mm <sup>2</sup> | Max. voltage (IECEX)    | 880 V            |
| Current (IECEX)                | 150 A              |                         |                  |

## System specifications

|                                     |                  |                                   |    |
|-------------------------------------|------------------|-----------------------------------|----|
| Version                             | Screw connection | End cover plate required          | No |
| Number of potentials                | 1                | Number of levels                  | 1  |
| Number of clamping points per level | 4                | Levels cross-connected internally | No |
| PE connection                       | No               |                                   |    |

## Additional technical data

|                          |         |                     |                                |
|--------------------------|---------|---------------------|--------------------------------|
| Explosion-tested version | Yes     | Installation advice | Terminal rail / mounting plate |
| Type of mounting         | Snap-on |                     |                                |

## Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

## Conductors for clamping (rated connection)

Type of connection Screw connection

## General

|                     |                                |                 |   |
|---------------------|--------------------------------|-----------------|---|
| Installation advice | Terminal rail / mounting plate | Number of poles | 1 |
| Standards           | IEC 60947-7-1, UL 1059, CSA    |                 |   |

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## Technical data

## Rating data

|  |                    |                                 |                             |
|--|--------------------|---------------------------------|-----------------------------|
| Rated cross-section                          | 50 mm <sup>2</sup> | Rated voltage                   | 1,000 V                     |
| Rated AC voltage                             | 1,000 V            | Rated DC voltage                | 1,000 V                     |
| Rated current                                | 150 A              | Standards                       | IEC 60947-7-1, UL 1059, CSA |
| Volume resistance according to IEC 60947-7-x | 0.21 mΩ            | Rated impulse withstand voltage | 8 kV                        |
| Power loss in accordance with IEC 60947-7-x  | 4.8 W              | Pollution severity              | 3                           |
| Surge voltage category                       | III                |                                 |                             |

## UL rating data

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ECLASS 9.0  | 27-14-11-20 | ECLASS 9.1  | 27-14-11-20 |
| ECLASS 10.0 | 27-14-11-20 | ECLASS 11.0 | 27-14-11-20 |
| ECLASS 12.0 | 27-14-11-20 | ECLASS 13.0 | 27-25-01-19 |

## Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | / |
|------------|---|

## Important note

|                     |  |
|---------------------|--|
| Product information | You will find additional information in the downloadsection of the onlinecatalogue |
|---------------------|--|

## Approvals

Approvals



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

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**

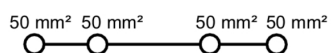
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">UKCA Ex Attestation of Conformity</a>                             |
|   | <a href="#">CB Certificate</a>  |
|   | <a href="#">FIMKO certificate</a>   |
|   | <a href="#">CCC Ex Certificate</a>  |
|   | <a href="#">ATEX Certificate</a>  |
|   | <a href="#">IECEX Certificate</a>   |
|   | <a href="#">DNV Certificate</a>   |
|   | <a href="#">UKCA Ex Certificate</a>   |
|   | <a href="#">LMP 23.0563U- WPD (Rev. 0)</a>                                    |
|   | <a href="#">CE Declaration of Conformity</a>                                  |
|   | <a href="#">UKCA declaration of conformity</a>                                |
| Engineering Data                            | <a href="#">Confirmation of Standards EN 45545-2_2020-10</a>                  |
|   | <a href="#">CAD data – STEP</a>   |
| User Documentation                          | <a href="#">DATA SHEET WPD 230</a>  |
|   | <a href="#">StorageConditionsTerminalBlocks</a>                               |
|   | <a href="#">NTI WPD 230</a>   |
|   | <a href="#">Manual - How to connect aluminum wires in WPD-Terminal blocks</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                      |

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# Drawings



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## Accessories

## 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 5/5 MC NE WS           | Version   |
| Order No.  | <a href="#">1609801044</a> | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111              | Weidmueller, white  |
| Qty.       | 1,000 pc(s).               |   |

## Socket wrench sets

Allen key made from fully hardened, high-alloy chromium-vanadium- steel, acc. to DIN ISO 2936 L (DIN 911), high-quality refined surface.



## General ordering data

|            |                            |                 |
|------------|----------------------------|-----------------|
| Type       | SKS 2,0-8,0 MR             | Version         |
| Order No.  | <a href="#">9008870000</a> | socket wrenches |
| GTIN (EAN) | 4032248266623              |                 |
| Qty.       | 1 pc(s).                   |                 |

|            |                            |               |
|------------|----------------------------|---------------|
| Type       | SK WSD-S 1,5-10,0          | Version       |
| Order No.  | <a href="#">9008850000</a> | Mounting tool |
| GTIN (EAN) | 4032248266609              |               |
| Qty.       | 1 pc(s).                   |               |

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## Accessories

## 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 snapped 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.  | <a href="#">1805520000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270248              |                            |
| Qty.       | 100 pc(s).                 |                            |
| Type       | BZT 1 WS 10/5              | Version                    |
| Order No.  | <a href="#">1805490000</a> | Accessories, Marker holder |
| GTIN (EAN) | 4032248270231              |                            |
| Qty.       | 100 pc(s).                 |                            |

## Protective covers



## Power feed-in

Our wide range of W-Series terminal blocks with our WPD main line branch terminals, which are optimised to guarantee both convenience and space gains, ensures a secure and convenient connection at the power feed-in.

## General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | WPDPC X30 GY               | Version   |
| Order No.  | <a href="#">2503330000</a> | Terminal cover, Wemid, Light Grey, Height: 21.85 mm, Width: 15.6 mm, Depth: 31 mm |
| GTIN (EAN) | 4050118533323              |   |
| Qty.       | 54 pc(s).                  |   |

## Power feed-in Screw connection

### W-Series WPD 130 1X50/1X50 GY



WPD 130

50 mm<sup>2</sup>

|                               |                   |
|-------------------------------|-------------------|
| Width / Height / Depth        | mm                |
| max. current / max. conductor | A/mm <sup>2</sup> |
| max. clamping range           | mm <sup>2</sup>   |

22 / 45 / 70  
150 / 50  
4...50

50 mm<sup>2</sup> 50 mm<sup>2</sup>

#### Technical data

| Rated data   |                 |
|--|-----------------|
| Rated voltage  | V               |
| Rated current  | A               |
| for wire cross-section                               | mm <sup>2</sup> |
| Rated impulse withstand voltage / Pollution severity |                 |
| Overvoltage category / UL 94 flammability rating     |                 |
| Approvals  |                 |
| Clamped conductors (H05V/H07V)                       |                 |
| Solid / Stranded                                     | mm <sup>2</sup> |
| Flexible with ferrule                                | mm <sup>2</sup> |
| Stripping length / Blade size                        | mm/-            |
| Tightening torque                                    | Nm              |
| Note   |                 |

#### Ordering data

| Version |                            |
|---------|----------------------------|
|         | light grey                 |
|         | blue                       |
|         | green                      |
|         | brown                      |
|         | black                      |
|         | brown / black / light grey |
|         | green / light grey / blue  |
| Note    |                            |

#### Accessories

| Protective cover       |            |
|------------------------|------------|
|                        | light grey |
| End bracket            |            |
|                        | grey       |
|                        | black      |
| Screwdriver            |            |
|                        | SET        |
| Identification systems |            |
|                        |            |

#### IEC 60947-7-1

| IEC       | UL           | CSA          | EN 60079-7 |
|-----------|--------------|--------------|------------|
| 1000      | 1000         | 1000         | 880        |
| 150       | 150          | 150          | 150        |
| 50        | AWG 12...1/0 | AWG 12...1/0 | 50         |
| 8 kV / 3  |              |              |            |
| III / V-0 |              |              |            |

#### Bemessungsanschluss

|  |
|--|
| 6...50 / 6...50                        |
| 4...35                                 |
| 16 / M10 (SW 5 mm)                     |
| see appendix at the end of the chapter |

WPD 230

50 mm<sup>2</sup>

|                                      |   |
|--------------------------------------|---|
| 35,6 / 45 / 70<br>150 / 50<br>4...50 | 50 mm <sup>2</sup> 50 mm <sup>2</sup> 50 mm <sup>2</sup> 50 mm <sup>2</sup> |
|--------------------------------------|---|

#### IEC 60947-7-1

| IEC       | UL           | CSA          | EN 60079-7 |
|-----------|--------------|--------------|------------|
| 1000      | 1000         | 1000         | 880        |
| 300       | 150          | 150          | 150        |
| 50        | AWG 12...1/0 | AWG 12...1/0 | 50         |
| 8 kV / 3  |              |              |            |
| III / V-0 |              |              |            |

#### Rated connection

|  |
|--|
| 6...50 / 6...50                        |
| 4...35                                 |
| 16 / M10 (SW 5 mm)                     |
| see appendix at the end of the chapter |

B



| Type                 | Qty. | Order No.  |
|----------------------|------|------------|
| WPD 230 2X50/2X50 GY | 5    | 2502580000 |
| WPD 230 2X50/2X50 BL | 5    | 2502590000 |
| WPD 230 2X50/2X50 GN | 5    | 2502600000 |
| WPD 230 2X50/2X50 BN | 5    | 2502610000 |
| WPD 230 2X50/2X50 BK | 5    | 2502950000 |
|                      |      |            |
|                      |      |            |

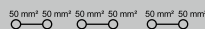
| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| WPDPC X30 GY      | 54   | 2503330000 |
|                   |      |            |
| WEW 35/2 GR 7042  | 100  | 1859200000 |
| AEB 35 SC/1 BK    | 50   | 2475310000 |
|                   |      |            |
| SK WSD-S 1,5-10,0 | 1    | 9008850000 |
|                   |      |            |
| DEK 5/5 MC NE WS  | 1000 | 1609801044 |
| WS 8/5 MM WS      | 800  | 2007150000 |
|                   |      |            |

WPD 330

50 mm<sup>2</sup>



56,5 / 45 / 70  
150 / 50  
4...50



#### IEC 60947-7-1

| IEC       | UL           | CSA          | EN 60079-7 |
|-----------|--------------|--------------|------------|
| 1000      | 1000         | 1000         | 880        |
| 150       | 150          | 150          | 150        |
| 50        | AWG 12...1/0 | AWG 12...1/0 | 50         |
| 8 kV / 3  |              |              |            |
| III / V-0 |              |              |            |

#### Rated connection

6...50 / 6...50

4...35

16 / M10 (SW 5 mm)

see appendix at the end of the chapter

| Type                             | Qty. | Order No.  |
|----------------------------------|------|------------|
| WPD 330 3X50/3X50 3XGY           | 3    | 2502620000 |
|                                  |      |            |
|                                  |      |            |
|                                  |      |            |
| WPD 330 3X50/3X50 1XBN/1XBK/1XGY | 3    | 2502650000 |
| WPD 330 1XGY/1XBL/1XGN           | 3    | 2502640000 |

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| WPDPC X30 GY      | 54   | 2503330000 |
| WEW 35/2 GR 7042  | 100  | 1859200000 |
| AEB 35 SC/1 BK    | 50   | 2475310000 |
| SK WSD-S 1,5-10,0 | 1    | 9008850000 |
| DEK 5/5 MC NE WS  | 1000 | 1609801044 |
| WS 8/5 MM WS      | 800  | 2007150000 |







Application range

B







## Power feed-in Screw connection

### Conductor connection data according to IEC 60947-7-1 (Cu), UL 1059 (AL+Cu)

| Termination connection data according to IEC 60439-1 (EN 60439-1) |   |   |   |   |
|---|---|---|---|---|
| Input (x1) / Output (x1)  | Copper  |   | Aluminium   |   |
|   |  |  |  |  |
| 50 mm <sup>2</sup>  | 10 Nm   |   | 14 Nm   | 14 Nm   |
| 35 mm <sup>2</sup>  |   | 10 Nm   |   |   |
| 25 mm <sup>2</sup>  | 8 Nm  | 8 Nm  | 12 Nm   | 10 Nm   |
| 16 mm <sup>2</sup>  |   |   | 10 Nm   |   |
| 10 mm <sup>2</sup>  | 6 Nm  | 6 Nm  |   |   |
| 6 mm <sup>2</sup>   |   |   |   |   |
| 4 mm <sup>2</sup>   |   |   |   |   |
| max. current with 2 x 50 mm <sup>2</sup> (acc. to IEC)            | 300 A   |   | 270 A   |   |
| Stripping lengths   | 16 mm   |   |   |   |
| Allen screw   | M10 (SW 5 mm)   |   |   |   |

 Stranded
  Solid
  Flexible with ferrule
  Sector shaped

| Input (x1) / Output (x1)                            | Copper  |   | Aluminium   |   |
|---|---|---|---|---|
|   |  |  |  |  |
| AWG 1/0   | 123.9Lb In.   |   | 123.9Lb In.   | 123.9Lb In.   |
| AWG 2   |   |   |   |   |
| AWG 4   |   | 123.9Lb In.   |   |   |
| AWG 6   |   |   |   |   |
| AWG 8   |   |   |   |   |
| AWG 10  |   |   |   |   |
| AWG 12  |   |   |   |   |
| max. current at 1 x 50 mm <sup>2</sup> (acc. to UL) | 150 A   |   | 120 A   |   |
| Stripping lengths                                   | 16 mm   |   |   |   |
| Allen screw   | M10 (SW 5 mm)   |   |   |   |

### Diagrams

