

**WPD 232 2X185/2X185 BL****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, 185, 1000 V, 353 A, Number of poles: 1, blue |
| Order No.  | <a href="#">2502810000</a>   |
| Type       | WPD 232 2X185/2X185 BL   |
| GTIN (EAN) | 4050118516630  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 73.5 mm | Depth (inches)  | 2.894 inch |
| Height     | 105 mm  | Height (inches) | 4.134 inch |
| Width      | 67.6 mm | Width (inches)  | 2.661 inch |
| Net weight | 405.6 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 | blue |
| UL 94 flammability rating | V-0   |        |      |

## Rating data IECEx/ATEX

|                                |                     |                         |                  |
|--------------------------------|---------------------|-------------------------|------------------|
| Certificate No. (ATEX)         | CNEX18ATEX0016U     | Certificate No. (IECEX) | IECEXNEX18.0010U |
| Max. voltage (ATEX)            | 1100 V              | Current (ATEX)          | 353 A            |
| Wire cross section max. (ATEX) | 185 mm <sup>2</sup> | Max. voltage (IECEX)    | 1100 V           |
| Current (IECEX)                | 353 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                          | 185 mm <sup>2</sup> | Rated voltage                           | 1,000 V                     |
| Rated AC voltage                             | 1,000 V             | Rated DC voltage                        | 1,000 V                     |
| Rated current                                | 353 A               | Standards                               | IEC 60947-7-1, UL 1059, CSA |
| Volume resistance according to IEC 60947-7-x | 0.09 mΩ             | Rated impulse withstand voltage         | 8 kV                        |
| Power loss in accordance with IEC 60947-7-x  | 11.3 W              | Short-time withstand current resistance | 8/20μs with 50 kA           |
| 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**

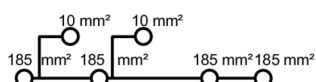
|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">UKCA Ex Attestation of Conformity</a>                             |
|   | <a href="#">CB Certificate</a>  |
|   | <a href="#">FIMKO certificate</a>   |
|   | <a href="#">CCC Ex Certificate</a>  |
|   | <a href="#">ATEX Certificate</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 232</a>  |
|   | <a href="#">StorageConditionsTerminalBlocks</a>                               |
|   | <a href="#">NTI WPD 232</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



## WPD 232 2X185/2X185 BL

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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).               |   |

## 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 X32 GY               | Version   |
| Order No.  | <a href="#">2503380000</a> | Terminal cover, Wemid, Light Grey, Height: 26.03 mm, Width: 30.1 mm, Depth: 72.1 mm |
| GTIN (EAN) | 4050118533347              |   |
| Qty.       | 12 pc(s).                  |   |

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## Accessories

## 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).                   |                 |

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

## Power feed-in Screw connection

### W-Series

#### WPD 132 1X185/1X185 GY



#### WPD 132

185 mm<sup>2</sup>

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

37,5 / 73.5 / 105  
353 / 185  
25...185



#### WPD 232

185 mm<sup>2</sup>

67,6 / 73.5 / 105  
353 / 185  
25...185



### Technical data

| Rated data   |  |                 |
|--|--|-----------------|
| Rated voltage  |  | V               |
| Rated current  |  | A               |
| for wire cross-section                               | 185 mm <sup>2</sup>                    | mm <sup>2</sup> |
|  | Auxiliary connection 6 mm <sup>2</sup> | mm <sup>2</sup> |
| Rated impulse withstand voltage / Pollution severity |  |                 |
| Overvoltage category / UL 94 flammability rating     |  |                 |
| Approvals  |  |                 |
| Clamped conductors (H05V/H07V)                       |  |                 |
| Solid / Stranded                                     | 185 mm <sup>2</sup>                    | mm <sup>2</sup> |
|  | Auxiliary connection 6 mm <sup>2</sup> | mm <sup>2</sup> |
| Flexible with ferrule                                | 185 mm <sup>2</sup>                    | mm <sup>2</sup> |
|  | Auxiliary connection 6 mm <sup>2</sup> | mm <sup>2</sup> |
| Stripping length / Blade size                        | 185 mm <sup>2</sup>                    | mm/-            |
|  | Auxiliary connection 6 mm <sup>2</sup> | mm/-            |
| Tightening torque                                    |  | Nm              |
| <b>Note</b>  |  |                 |

### IEC 60947-7-1

| IEC       | UL                | CSA               | EN 60079-7 |
|-----------|-------------------|-------------------|------------|
| 1000      | 1000              | 1000              | 1100       |
| 353       | 310               | 310               | 353        |
| 185       | AWG 4...kcmil 350 | AWG 4...kcmil 350 | 185        |
| 6         | AWG 16...8        | AWG 16...8        | 6          |
| 8 kV / 3  |                   |                   |            |
| III / V-0 |                   |                   |            |

| Rated connection                       |  |
|--|--|
| 95...185 / 95...185                    |  |
| 1.5...10 / 1.5...10                    |  |
| 25...150                               |  |
| 1.5...6                                |  |
| 29 / M18 (SW 10)                       |  |
| 10 / M4 (+/- PZ2)                      |  |
| see appendix at the end of the chapter |  |

### IEC 60947-7-1

| IEC       | UL                | CSA               | EN 60079-7 |
|-----------|-------------------|-------------------|------------|
| 1000      | 1000              | 1000              | 1100       |
| 706       | 310               | 310               | 353        |
| 185       | AWG 4...kcmil 350 | AWG 4...kcmil 350 | 185        |
| 6         | AWG 16...8        | AWG 16...8        | 6          |
| 8 kV / 3  |                   |                   |            |
| III / V-0 |                   |                   |            |

| Rated connection                       |  |
|--|--|
| 95...185 / 95...185                    |  |
| 1.5...10 / 1.5...10                    |  |
| 25...150                               |  |
| 1.5...6                                |  |
| 29 / M18 (SW 10)                       |  |
| 10 / M4 (+/- PZ2)                      |  |
| see appendix at the end of the chapter |  |

### Ordering data

| Version     |            |
|-------------|------------|
|             | light grey |
|             | blue       |
|             | green      |
|             | brown      |
|             | black      |
| <b>Note</b> |            |

| Type                   | Qty. | Order No.  |
|------------------------|------|------------|
| WPD 132 1X185/1X185 GY | 1    | 2502750000 |
| WPD 132 1X185/1X185 BL | 1    | 2502760000 |
| WPD 132 1X185/1X185 GN | 1    | 2502770000 |
| WPD 132 1X185/1X185 BN | 1    | 2502780000 |
| WPD 132 1X185/1X185 BK | 1    | 2502790000 |

| Type                   | Qty. | Order No.  |
|------------------------|------|------------|
| WPD 232 2X185/2X185 GY | 1    | 2502800000 |
| WPD 232 2X185/2X185 BL | 1    | 2502810000 |
| WPD 232 2X185/2X185 GN | 1    | 2502820000 |
| WPD 232 2X185/2X185 BN | 1    | 2502830000 |
| WPD 232 2X185/2X185 BK | 1    | 2502840000 |

### Accessories






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





| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| WPDPC X32 GY      | 12   | 2503380000 |
| 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 |

| Type              | Qty. | Order No.  |
|-------------------|------|------------|
| WPDPC X32 GY      | 12   | 2503380000 |
| 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 |








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

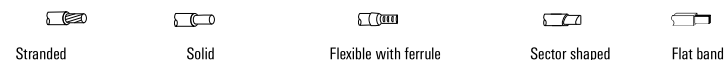
| Input (x1) / Output (x1)                                | Copper  |   |   | Aluminium   |   |  |  |
|---|---|---|---|---|---|--|--|
|   |  |  |  |  |  |  |  |
| 185 mm <sup>2</sup>                                     | 25 Nm   | 25 Nm   |   | 30,9 Nm   | 30,9 Nm   |  |  |
| 150 mm <sup>2</sup>                                     |   |   |   |   |   |  |  |
| 120 mm <sup>2</sup>                                     |   |   |   |   |   |  |  |
| 95 mm <sup>2</sup>                                      |   |   |   |   |   |  |  |
| 70 mm <sup>2</sup>                                      |   | 20 Nm   |   |   |   |  |  |
| 50 mm <sup>2</sup>                                      |   |   |   |   |   |  |  |
| 35 mm <sup>2</sup>                                      |   |   |   |   |   |  |  |
| 25 mm <sup>2</sup>                                      |   |   |   |   |   |  |  |
| Flat band 10x15,5x0,8 mm                                |   |   |   | 30,9 Nm   |   |  |  |
| max. current with 2 x 185 mm <sup>2</sup> (acc. to IEC) | 706 A   |   |   | 284 A   |   |  |  |
| Stripping lengths                                       | 29 mm   |   |   |   |   |  |  |
| Allen screw   | M18 (SW 10 mm)  |   |   |   |   |  |  |

| Input (x1) / Output (x1)                               | Copper  |   | Aluminium   |   |
|--|---|---|---|---|
|  |  |  |  |  |
| 350 kcmil  | 250Lb In.   |   | 398Lb In.   | 398Lb In.   |
| 300 kcmil  |   | 250Lb In.   |   |   |
| 250 kcmil  |   |   |   |   |
| AWG 3/0  |   |   |   |   |
| AWG 2/0  |   | 200Lb In.   |   |   |
| AWG 1/0  |   |   |   |   |
| AWG 2  |   |   |   |   |
| AWG 4  |   |   |   |   |
| max. current with 1 x 185 mm <sup>2</sup> (acc. to UL) |   | 310 A   |   | 250 A   |
| Stripping lengths                                      |   | 29 mm   |   |   |
| Allen screw  |   | M18 (SW 10 mm)  |   |   |

## Auxiliary connection

| Copper              |   |   |
|---------------------|---|---|
|                     |  |  |
| 10 mm <sup>2</sup>  | 1,2 Nm  | 1,2 Nm  |
| 6 mm <sup>2</sup>   |   |   |
| 4 mm <sup>2</sup>   |   |   |
| 2.5 mm <sup>2</sup> |   |   |
| 1.5 mm <sup>2</sup> |   |   |
| max. current        | 57 A  |   |
| Stripping lengths   | 10 mm   |   |
| screw               | M4 (+/PZ2)  |   |

| Copper            |  |   |
|-------------------|--|---|
|                   | <br> |  |
| AWG 8             | 20.3Lb In.   | 20.3Lb In.  |
| AWG 10            |  |   |
| AWG 12            |  |   |
| AWG 14            |  |   |
| AWG 16            |  |   |
| max. current      | 57 A   |   |
| Stripping lengths | 10 mm  |   |
| screw             | M4 (+/- PZ2)   |   |



## Diagrams

