

WDU 16N**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

General ordering data

| | |
|------------|---|
| Version | Feed-through terminal block, Screw connection, 16 mm ² , 690 V, 76 A, Number of connections: 2 |
| Order No. | 1036 100000 |
| Type | WDU 16N |
| GTIN (EAN) | 4008 190273217 |
| Qty. | 50 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|--------------------------|------------|----------------|------------|
| Depth | 46.5 mm | Depth (inches) | 1.831 inch |
| Depth including DIN rail | 47 mm | Height | 60 mm |
| Height (inches) | 2.362 inch | Width | 12 mm |
| Width (inches) | 0.472 inch | Net weight | 24.08 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 | dark beige |
| UL 94 flammability rating | V-0 | | |

System specifications

| | | | |
|-------------------------------------|--|-------------------------------|-----|
| Version | Screw connection, for screwable cross-connection | End cover plate required | No |
| Number of potentials | 1 | Number of levels | 1 |
| Number of clamping points per level | 2 | Number of potentials per tier | 1 |
| Levels cross-connected internally | No | PE connection | No |
| Rail | TS 35 | N-function | No |
| PE function | No | PEN function | Yes |

2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

| | | | |
|--|---------------------|--|---------------------|
| Cross-section for connected wire, solid, two clampable wires, max. | 6 mm ² | Cross-section for connected wire, solid, two clampable wires, min. | 1.5 mm ² |
| Cross-section for connected wire, stranded, two clampable wires, max. | 6 mm ² | Cross-section for connected wire, stranded, two clampable wires, min. | 1.5 mm ² |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 4 mm ² | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 1.5 mm ² |
| Wire connection cross section, finely stranded, two clampable wires, min. | 1.5 mm ² | Wire cross-section, finely stranded, two clampable wires, max. | 4 mm ² |

Additional technical data

| | | | |
|--------------------------|--------|-----------------------------|---------|
| Explosion-tested version | No | Number of similar terminals | 1 |
| Open sides | closed | Type of mounting | Snap-on |

CSA rating data

| | | | |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA) | 200039-1057876 | Current size C (CSA) | 70 A |
| Current size D (CSA) | 5 A | Voltage size C (CSA) | 300 V |
| Voltage size D (CSA) | 600 V | Wire cross section max. (CSA) | 6 AWG |
| Wire cross section min. (CSA) | 14 AWG | | |

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

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Conductors for clamping (rated connection)

| | | | |
|---|---------------------|---|---------------------|
| Blade size | 1.0 x 5.5 mm | Clamping range, max. | 25 mm ² |
| Clamping range, min. | 1.5 mm ² | Clamping screw | M 4 |
| Connection cross-section, stranded, max. | 25 mm ² | Connection cross-section, stranded, min. | 1.5 mm ² |
| Connection direction | on side | Gauge to IEC 60947-1 | B7 |
| Number of connections | 2 | Stripping length | 12 mm |
| Tightening torque, max. | 2.4 Nm | Tightening torque, min. | 1.2 Nm |
| Torque level with DMS electric screwdriver | 4 | Type of connection | Screw connection |
| Wire connection cross section AWG, max. | AWG 6 | Wire connection cross section AWG, min. | AWG 14 |
| Wire connection cross section, finely stranded, max. | 16 mm ² | Wire connection cross section, finely stranded, min. | 1.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 16 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm ² |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 16 mm ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1.5 mm ² |
| Wire connection cross-section, solid core, max. | 16 mm ² | Wire connection cross-section, solid core, min. | 1.5 mm ² |

General

| | | | |
|---|-------|---|---------------|
| Rail | TS 35 | Standards | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 6 | Wire connection cross section AWG, min. | AWG 14 |

Rating data

| | | | |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section | 16 mm ² | Rated voltage | 690 V |
| Rated DC voltage | 690 V | Rated current | 76 A |
| Current at maximum wires | 101 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.42 mΩ | Rated impulse withstand voltage | 6 kV |
| Power loss in accordance with IEC 60947-7-x | 2.43 W | Pollution severity | 3 |

UL rating data

| | | | |
|---|--------|---|-------|
| Certificate No. (UR) | E60693 | Conductor size Factory wiring max. (UR) | 6 AWG |
| Conductor size Factory wiring min. (UR) | 14 AWG | Conductor size Field wiring max. (UR) | 6 AWG |
| Conductor size Field wiring min. (UR) | 14 AWG | Current size B (UR) | 70 A |
| Current size C (UR) | 70 A | Voltage size B (UR) | 600 V |
| Voltage size C (UR) | 600 V | | |

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 | 27-25-01-01 |

Data sheet

WDU 16N

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Technical data

Approvals

Approvals



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

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | CE Declaration of Conformity UKCA declaration of conformity Confirmation of Standards EN 45545-2_2020-10 |
| Engineering Data | CAD data – STEP |
| Engineering Data | Zuken E3.S |
| User Documentation | StorageConditionsTerminalBlocks Instruction |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

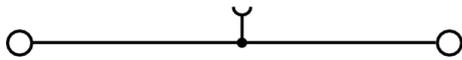
Data sheet

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Drawings



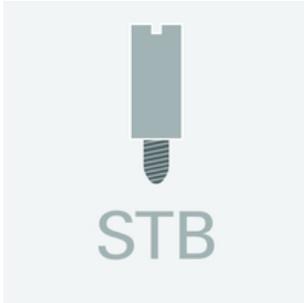
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Accessories

Testsockets



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 | STB 14/D6/4/M3 SAK10 | Version |
| Order No. | 0169900000 | Accessories, Socket |
| GTIN (EAN) | 4008190076665 | |
| Qty. | 50 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 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). | |

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Accessories

SchT group marker carrier



The SchT 5 S group tag carriers are clipped directly onto the TS 32 mounting rail (G-rail) or the TS 35 mounting rail (top-hat rail). It is therefore possible to label the terminal strip irrespective of the terminal and the type of terminal. SchT 5 and SchT 5 S are fitted with ESO 5, STR 5 protective strips.

The SchT 7 is a hinged group tag carrier for inlay tags which enables easy access to the clamping screw. The SchT 7 is fitted with ESO 7, STR 7 protective strips or DEK 5.

Inlay tags and protective strips can be found under "Accessories".

General ordering data

| Type | Version |
|--------------------------------------|---|
| SCHT 7 | SCHT, Terminal marker, 39.3 x 8 mm, Pitch in mm (P): 7.00 |
| Order No. 0517960000 | Weidmueller, white |
| GTIN (EAN) 4008190001742 | |
| Qty. 20 pc(s). | |

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- 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 | Version |
|--------------------------------------|--|
| WS 12/5 MC NE WS | WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| Order No. 1609860000 | Allen-Bradley, white |
| GTIN (EAN) 4008190203481 | |
| Qty. 720 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. | 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). | |

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 35/2 | Version |
| Order No. | 1061200000 | End bracket, Wemid, dark beige, Rail: TS 35, when screwed in |
| GTIN (EAN) | 4008190030230 | |
| Qty. | 50 pc(s). | |

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Accessories

W-Series



A partition plate is used for the optical separation of circuits or used for electrical isolation from neighbouring cross-connectors. In contrast to the end plate, the contour can be larger than the adjacent terminal blocks. However, it should not be smaller, as otherwise the required clearance and creepage distances within the application can no longer be maintained.

General ordering data

| Type | WTW EN | Version |
|------------|----------------------------|---|
| Order No. | 1058800000 | Partition plate (terminal), Intermediate plate, 86 mm x 62 mm, dark |
| GTIN (EAN) | 4008190140175 | beige |
| Qty. | 20 pc(s). | |

WS 12/5



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 | WS 12/5 MM WS | Version |
|------------|----------------------------|--|
| Order No. | 2007190000 | WS, Terminal marker, 12 x 5 mm, Weidmueller, white |
| GTIN (EAN) | 4050118392036 | |
| Qty. | 800 pc(s). | |

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Accessories

PEN bridges



A PEN bridge joins separate PE and N conductors into one PEN conductor.

General ordering data

| | | |
|------------|---------------------------|--|
| Type | WQB PEN 16N | Version |
| Order No. | 107960000 | Cross-connector (terminal), when screwed in, Number of poles: 2, |
| GTIN (EAN) | 4008190370107 | Pitch in mm (P): 12.00, Insulated: No, 76 A, Silver grey |
| Qty. | 10 pc(s). | |
| Type | WQV 16N-PEN BL | Version |
| Order No. | 107136000 | Cross-connector (terminal), when screwed in, Number of poles: 2, |
| GTIN (EAN) | 4008190279257 | Pitch in mm (P): 11.90, Insulated: Yes, 76 A, blue |
| Qty. | 10 pc(s). | |

W-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 | WTA 2 WDU2.5-10 | Version |
| Order No. | 163232000 | Test adapter (terminal), 1.5 mm², 250 V, 6 A |
| GTIN (EAN) | 4008190257347 | |
| Qty. | 25 pc(s). | |

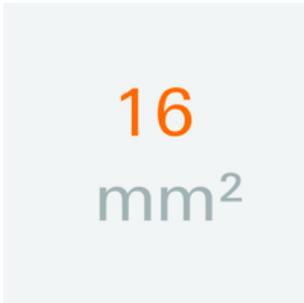
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Accessories

16 mm²



Screwable cross-connections are easy to mount and de mount. Thanks to the big contact surface, even high currents can be transmitted with maximum contact reliability.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WQV 16N/3 | Version |
| Order No. | 1636570000 | Cross-connector (terminal), when screwed in, Number of poles: 3, |
| GTIN (EAN) | 4008190272845 | Pitch in mm (P): 11.90, Insulated: Yes, 76 A, yellow |
| Qty. | 50 pc(s). | |
| Type | WQV 16N/2 | Version |
| Order No. | 1636560000 | Cross-connector (terminal), when screwed in, Number of poles: 2, |
| GTIN (EAN) | 4008190272852 | Pitch in mm (P): 11.90, Insulated: Yes, 76 A, yellow |
| Qty. | 50 pc(s). | |
| Type | WQV 16N/4 | Version |
| Order No. | 1636580000 | Cross-connector (terminal), when screwed in, Number of poles: 4, |
| GTIN (EAN) | 4008190272838 | Pitch in mm (P): 11.90, Insulated: Yes, 76 A, yellow |
| Qty. | 50 pc(s). | |

Step-down bridges



Reducing cross-connectors enable simple and fast connection of terminal blocks with different rated cross-sections.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WQV 16N-10 | Version |
| Order No. | 1073400000 | Cross-connector (terminal), when screwed in, Number of poles: 2, |
| GTIN (EAN) | 4008190855901 | Pitch in mm (P): 11.90, Insulated: Yes, 76 A, yellow |
| Qty. | 10 pc(s). | |

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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. | 1609801044 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111 | Weidmueller, white |
| Qty. | 1,000 pc(s). | |

W-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 | WAD 12N WS | Version |
| Order No. | 1073290000 | Terminal cover, PA 66, white, Height: 33.3 mm, Width: 12 mm, Depth: 7.5 mm |
| GTIN (EAN) | 4008190852832 | |
| Qty. | 50 pc(s). | |
| Type | WAD 12N GE BED | Version |
| Order No. | 1073200000 | Terminal marking, Pitch in mm (P): 12.00, Printed characters: Flash, yellow |
| GTIN (EAN) | 4008190499112 | |
| Qty. | 50 pc(s). | |