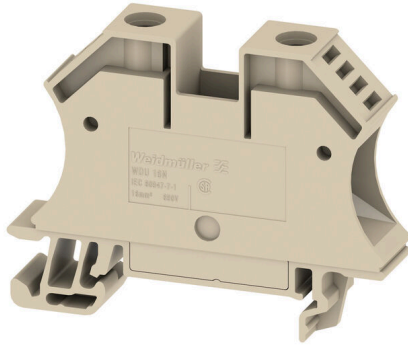


WDU 16N**Weidmüller Interface GmbH & Co. KG**Klingenbergstraße 26
D-32758 Detmold
Germany

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, dark beige, 16 mm ² , 76 A, 690 V, Number of connections: 2 |
| Order No. | 1036100000 |
| Type | WDU 16N |
| GTIN (EAN) | 4008190273217 |
| Qty. | 50 items |

WDU 16N

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Technical data

Approvals

Approvals



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

Dimensions and weights

| | | | |
|--------------------------|-------------|----------------|-------------|
| Depth | 46.5 mm | Depth (inches) | 1.8307 inch |
| Depth including DIN rail | 47 mm | Height | 60 mm |
| Height (inches) | 2.3622 inch | Width | 12 mm |
| Width (inches) | 0.4724 inch | Net weight | 24.08 g |

Temperatures

| | | | |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -50 °C...75 °C |
| Continuous operating temp., min. | -50 °C | Continuous operating temp., max. | 120 °C |

Environmental Product Compliance

| | | | |
|--------------------------|-----------------------------|------------------|--|
| RoHS Compliance Status | Compliant without exemption | | |
| REACH SVHC | No SVHC above 0.1 wt% | | |
| Product Carbon Footprint | Cradle to gate | 0,274 kg CO2 eq. | |

Material data

| | | | |
|---------------------------|-------|--------|------------|
| Basic 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 |
| Mounting 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 |
| 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 cross-section, finely stranded, two clampable wires, max. | 4 mm ² | Wire connection cross section, finely stranded, 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 |

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Technical data

Additional technical data

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

CSA rating data

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

Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

Conductors for clamping (rated connection)

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

General

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

Rating data

| | | | |
|--|--------------------|---------------------------------|---------------|
| Rated cross-section | 16 mm ² | Rated voltage | 690 V |
| Rated DC voltage | 690 V | Nominal 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 |

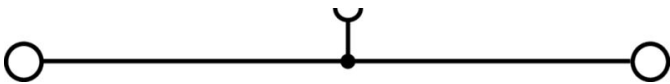
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| | | | |
|---|--------|---|--------|
| Voltage size B (UR) | 600 V | Current size B (UR) | 70 A |
| Conductor size Factory wiring max. (UR) | 6 AWG | Current size C (UR) | 70 A |
| Voltage size C (UR) | 600 V | Conductor size Factory wiring min. (UR)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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000897 | ETIM 9.0 | EC000897 |
| ETIM 10.0 | EC000897 | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 | | |

Drawings



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Accessories

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WQV 16N/2 | Version |
| Order No. | 1636560000 | Cross-connector (terminal), when screwed in, yellow, 76 A, Number of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 7.6 mm |
| GTIN (EAN) | 4008190272852 | |
| Qty. | 50 ST | |
| Type | WQV 16N/3 | Version |
| Order No. | 1636570000 | Cross-connector (terminal), when screwed in, yellow, 76 A, Number of poles: 3, Pitch in mm (P): 11.90, Insulated: Yes, Width: 7.6 mm |
| GTIN (EAN) | 4008190272845 | |
| Qty. | 50 ST | |
| Type | WQV 16N/4 | Version |
| Order No. | 1636580000 | Cross-connector (terminal), when screwed in, yellow, 76 A, Number of poles: 4, Pitch in mm (P): 11.90, Insulated: Yes, Width: 7.6 mm |
| GTIN (EAN) | 4008190272838 | |
| Qty. | 50 ST | |

End plates and partition plates



Partition plates and end plates are essential accessories for terminal blocks. Partition plates provide optical and electrical separation of different potentials and functional groups, increasing safety and ensuring a clear structure inside the control cabinet. End plates close the terminal block row on the sides, protect against contact with live parts, and ensure a clean, stable finish. Both components are precisely matched to the respective Weidmüller terminal block series, contributing to safe, compliant, and professional wiring.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WTW EN | Version |
| Order No. | 1058800000 | Partition plate (terminal), dark beige, Height: 86 mm, Width: 3 mm, |
| GTIN (EAN) | 4008190140175 | V-0, Wemid |
| Qty. | 20 ST | |

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Accessories

End bracket



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, dark beige, TS 35, HB, Wemid, Width: 8 mm, 100 °C | |
| GTIN (EAN) | 4008190030230 | | |
| Qty. | 50 ST | | |

Testadapter and testsockets

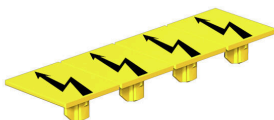


Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | WTA 2 WDU2.5-10 | Version | |
| Order No. | 1632320000 | Test adapter (terminal), 1.5 mm ² , 250 V, 6 A | |
| GTIN (EAN) | 4008190257347 | | |
| Qty. | 25 ST | | |

Warning cover



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, white, PA 66, Height: 33.3 mm, Width: 12 mm, Depth: 7.5 mm, V-2 | |
| GTIN (EAN) | 4008190852832 | | |
| Qty. | 50 ST | | |

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Accessories

| | | | |
|------------|----------------------------|---|--|
| Type | WAD 12N GE BED | Version | |
| Order No. | 1073200000 | Terminal marking, yellow, Pitch in mm (P): 12.00, Printed characters: | |
| GTIN (EAN) | 4008190499112 | Flash | |
| Qty. | 50 ST | | |

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.

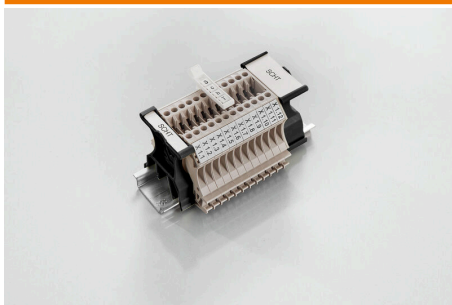
Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- 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. | 1000 ST | | |
| Type | WS 12/5 MC NE WS | Version | |
| Order No. | 1609860000 | WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, | |
| GTIN (EAN) | 4008190203481 | Allen-Bradley, white | |
| Qty. | 720 ST | | |

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

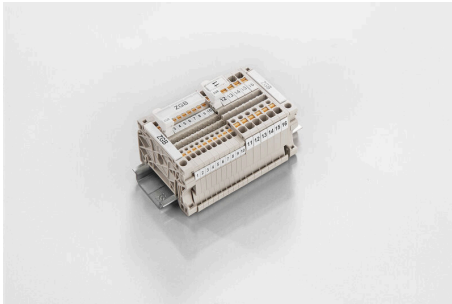
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Accessories

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 ST | | |
| 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 ST | | |

Accessorie



Current and voltage transformer wiring

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

General ordering data

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

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.

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Accessories

General ordering data

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

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 ST | | |

Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

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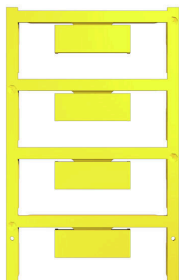
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Accessories

General ordering data

| | | |
|------------|----------------------------|---|
| Type | WQV 16N-10 | Version |
| Order No. | 1073400000 | Cross-connector (terminal), when screwed in, yellow, 76 A, Number of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm |
| GTIN (EAN) | 4008190855901 | |
| Qty. | 10 ST | |
| Type | WQV 16N-PEN BL | Version |
| Order No. | 1071360000 | Cross-connector (terminal), when screwed in, blue, 76 A, Number of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 9 mm |
| GTIN (EAN) | 4008190279257 | |
| Qty. | 10 ST | |
| Type | WQB PEN 16N | Version |
| Order No. | 1079600000 | Cross-connector (terminal), when screwed in, Silver grey, 76 A, Number of poles: 2, Pitch in mm (P): 12.00, Insulated: No, Width: 17.6 mm |
| GTIN (EAN) | 4008190370107 | |
| Qty. | 10 ST | |

Blank

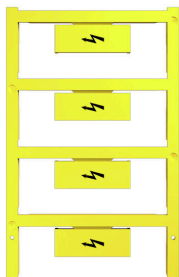


The WAD connector marker is suitable for W-series terminals and for the WEW 35/2 and ZEW 35/2 end brackets. The markers are available as blank markers, with custom printing or standard print with lightning symbol. The WAD MultiCard markers are suitable for labelling with PrintJet CONNECT printers. For 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 | WAD 12N MC NE GE | Version |
| Order No. | 2866650000 | Group markers, Cover, 33.3 x 12 mm, WDU 16N, yellow |
| GTIN (EAN) | 4064675604860 | |
| Qty. | 32 ST | |
| Type | WAD 12N MC NE WS | Version |
| Order No. | 2866660000 | Group markers, Cover, 33.3 x 12 mm, WDU 16N, white |
| GTIN (EAN) | 4064675604877 | |
| Qty. | 32 ST | |

With lightning flash



The WAD connector marker is suitable for W-series terminals and for the WEW 35/2 and ZEW 35/2 end brackets. The markers are available as blank markers, with custom printing or standard print with lightning symbol. The WAD MultiCard markers are suitable for labelling with PrintJet CONNECT printers. 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 | WAD 12N MC B GE/SW | Version |
| Order No. | 2866670000 | Group markers, Cover, 33.3 x 12 mm, WDU 16N, black/yellow |
| GTIN (EAN) | 4064675604884 | |
| Qty. | 32 ST | |

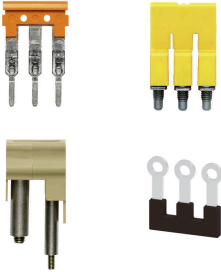
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Accessories

Cross-connections



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General ordering data

| | | |
|------------|----------------------------|---|
| Type | WQV 16N-4/6 | Version |
| Order No. | 1072500000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm |
| GTIN (EAN) | 4008190475468 | |
| Qty. | 10 ST | |
| Type | WQV 16N-2.5 | Version |
| Order No. | 1073100000 | Cross-connector (terminal), when screwed in, yellow, 76 A, Number of poles: 2, Pitch in mm (P): 11.90, Insulated: Yes, Width: 13 mm |
| GTIN (EAN) | 4008190489847 | |
| Qty. | 10 ST | |