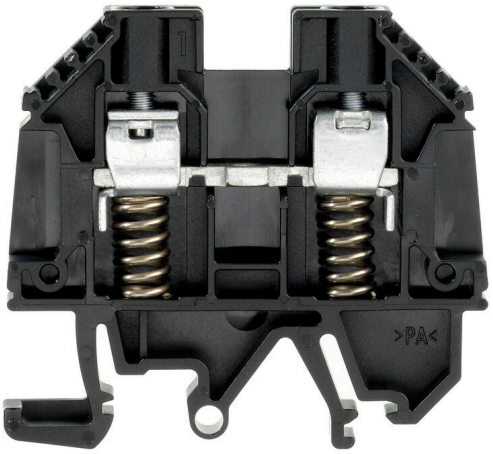
Data sheet

# WDU 6 SL/EN SW

**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, black, 6 mm², 41 A, 690 V, Number of connections: 2 |
| Order No. | 9537430000 |
| Type | WDU 6 SL/EN SW |
| GTIN (EAN) | 4032248037438 |
| Qty. | 50 items |

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## Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 51.1 mm | Depth (inches) | 2.0118 inch |
| Depth including DIN rail | 55 mm | Height | 60 mm |
| Height (inches) | 2.3622 inch | Width | 7.9 mm |
| Width (inches) | 0.311 inch | Net weight | 17.29 g |

### Temperatures

| | | | |
|---|---|---|---|
| Storage temperature | -25 °C...55 °C | Ambient temperature | -60 °C...85 °C |
| Continuous operating temp., min. | -60 °C | Continuous operating temp., max. | 130 °C |

### Environmental Product Compliance

| | | |
|---|---|---|
| RoHS Compliance Status | Compliant without exemption | |
| REACH SVHC | No SVHC above 0.1 wt% | |
| Product Carbon Footprint | Cradle to gate | 0,134 kg CO2 eq. |

### Material data

| | | | |
|---|---|---|---|
| Basic material | Wemid | Colour | black |
| UL 94 flammability rating | V-0 | | |

### Rating data IECEx/ATEX

| | | | |
|---|---|---|---|
| Certificate No. (ATEX) | DEMKO14ATEX1338U | Certificate No. (IECEX) | IECEXULD14.0005U |
| Max. voltage (ATEX) | 440 V | Current (ATEX) | 40 A |
| Wire cross section max. (ATEX) | 6 mm² | Max. voltage (IECEX) | 440 V |
| Current (IECEX) | 40 A | Wire cross section max. (IECEX) | 6 mm² |
| Marking EN 60079-7 | Ex eb II C Gb | Ex 2014/34/EU label | II 2 G D |

### System specifications

| | | | |
|---|---|---|---|
| Version | Screw connection, with spring-loaded cable clamp, for screwable cross-connection, for plug-in cross-connector, One end without connector | End cover plate required | Yes |
| 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 |

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## Technical data

| | | | |
|---|---|---|---|
| Mounting rail | TS 32, TS 35 | N-function | No |
| PE function | No | PEN function | No |

### Additional technical data

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

### CSA rating data

| | | | |
|---|---|---|---|
| Wire cross section max. (CSA) | 8 AWG | Voltage size C (CSA) | 300 V |
| Current size C (CSA) | 45 A | Certificate No. (CSA) | 200039-1057876 |
| Voltage size B (CSA) | 300 V | Current size B (CSA) | 45 A |
| Voltage size D (CSA) | 600 V | Current size D (CSA) | 5 A |
| Wire cross section min. (CSA) | 20 AWG | | |

### Conductors for clamping (additional connection)

| | |
|---|---|
| Connection type, additional connection | Screw connection |

### Conductors for clamping (rated connection)

| | | | |
|---|---|---|---|
| Gauge to IEC 60947-1 | A5 | Wire connection cross section AWG, max. | AWG 8 |
| Connection direction | on side | Tightening torque, max. | 1.6 Nm |
| Tightening torque, min. | 0.8 Nm | Stripping length | 16 mm |
| Type of connection | Screw connection | Number of connections | 2 |
| Clamping range, max. | 6 mm² | Clamping range, min. | 0.5 mm² |
| Clamping screw | M 3.5 | Blade size | 0.8 x 4.0 mm |
| Wire connection cross section AWG, min. | AWG 26 | 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, 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, max. | 6 mm² |
| Wire connection cross section, finely stranded, min. | 0.5 mm² | Connection cross-section, stranded, max. | 6 mm² |
| Connection cross-section, stranded, min. | 0.5 mm² | Wire connection cross-section, solid core, max. | 6 mm² |
| Wire connection cross-section, solid core, min. | 0.5 mm² | Connection cross-section, finely stranded, min. | 0.5 mm² |

### General

| | | | |
|---|---|---|---|
| Wire connection cross section AWG, max. | AWG 8 | Wire connection cross section AWG, min. | AWG 26 |
| Standards | IEC 60947-7-1 | Mounting rail | TS 32, TS 35 |

### Rating data

| | | | |
|---|---|---|---|
| Rated cross-section | 6 mm² | Rated voltage | 690 V |
| Rated DC voltage | 690 V | Nominal current | 41 A |
| Current at maximum wires | 57 A | Standards | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.78 mΩ | Rated impulse withstand voltage | 6 kV |

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## Technical data

| | | | |
|---|---|---|---|
| Power loss in accordance with IEC 60947-7-x | 1.31 W | Surge voltage category | III |
| Pollution severity | 3 | | |

### UL rating data

| | | | |
|---|---|---|---|
| Conductor size Factory wiring max. (UR) | 8 AWG | Current size D (UR) | 10 A |
| Current size C (UR) | 50 A | Voltage size C (UR) | 150 V |
| Conductor size Factory wiring min. (UR) | 20 AWG | Certificate No. (UR) | E60693 |
| Conductor size Field wiring min. (UR) | 20 AWG | Voltage size D (UR) | 300 V |
| Conductor size Field wiring max. (UR) | 8 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 | | |

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## Drawings

Weidmüller

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# Accessories

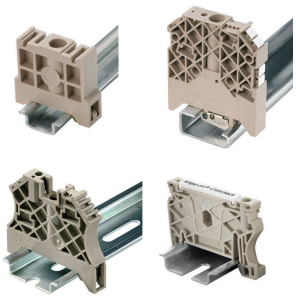
## End plates and partition plates

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 | WAP 2.5-10 | Version |
| Order No. | 1050000000 | End plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm, |
| GTIN (EAN) | 4008190103149 | V-0, Wemid, Snap-on: No |
| Qty. | 50 ST | |
| Type | WAP 2.5-10 SW | Version |
| Order No. | 1050010000 | End plate for terminals, black, Height: 56 mm, Width: 1.5 mm, V-0, |
| GTIN (EAN) | 4008190406806 | Wemid, Snap-on: No |
| Qty. | 50 ST | |
| Type | WAP 16+35 WTW 2.5-10 | Version |
| Order No. | 1050100000 | End and partition plate for terminals, dark beige, Height: 56 mm, |
| GTIN (EAN) | 4008190079901 | Width: 1.5 mm, V-0, Wemid |
| Qty. | 20 ST | |
| Type | WAP 2.5-10 4-6 | Version |
| Order No. | 1272380000 | End plate for terminals, dark beige, Height: 56 mm, Width: 1.5 mm, |
| GTIN (EAN) | 4050118114881 | V-0, Wemid, Snap-on: Yes |
| Qty. | 50 ST | |

## 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 | |

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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 6/2 | Version |
| Order No. | 1052360000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190075866 | poles: 2, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/3 | Version |
| Order No. | 1054760000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190174163 | poles: 3, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/4 | Version |
| Order No. | 1054860000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190180799 | poles: 4, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/5 | Version |
| Order No. | 1062660000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190176914 | poles: 5, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/6 | Version |
| Order No. | 1062670000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190261771 | poles: 6, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/7 | Version |
| Order No. | 1062680000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190261788 | poles: 7, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |
| Type | WQV 6/10 | Version |
| Order No. | 1052260000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4008190153977 | poles: 10, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 20 ST | |
| Type | WQV 6/12 | Version |
| Order No. | 1062720000 | Cross-connector (terminal), when screwed in, yellow, 57 A, Number of |
| GTIN (EAN) | 4050118259391 | poles: 12, Pitch in mm (P): 8.00, Insulated: Yes, Width: 7.6 mm |
| Qty. | 50 ST | |

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## Accessories

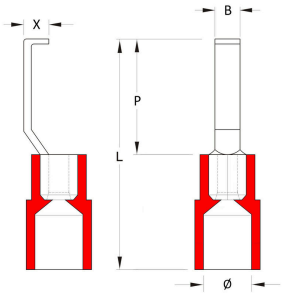
### Testadapter and testsockets

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 3 WDU4 | Version |
| Order No. | 1632350000 | Test adapter (terminal), 1.5 mm², 250 V, 6 A |
| GTIN (EAN) | 4008190209711 | |
| Qty. | 25 ST | |

### Hook-type cable lugs




The use of insulated connectors guarantees users a permanent and consistent quality for their electrical connections.
In addition, they bring advantages during installation.

### General ordering data

| | | |
|---|---|---|
| Type | HBT 1,5 - 4,6 RT | Version |
| Order No. | 1233340000 | cable lug, terminal end,Insulated cable connector,1.5 mm²,1.5 mm² - |
| GTIN (EAN) | 4050118210972 | 4.6 mm²,red |
| Qty. | 100 ST | |
| Type | HBT 2,5 - 4,6 BL | Version |
| Order No. | 1233330000 | cable lug, terminal end,Insulated cable connector,2.5 mm²,2.5 mm² - |
| GTIN (EAN) | 4050118016901 | 4.6 mm²,blue |
| Qty. | 100 ST | |
| Type | HBT 6,0 - 4,6 GE | Version |
| Order No. | 1216230000 | cable lug, terminal end,Insulated cable connector,4.6 mm²,4.6 mm² - |
| GTIN (EAN) | 4050118000337 | 6 mm²,yellow |
| Qty. | 100 ST | |

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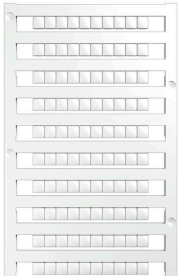
## Accessories

### 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.

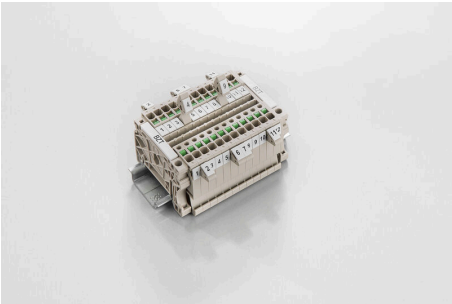
- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

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. | 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 | |

### 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 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 | |

Weidmüller

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# Accessories

## 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 | |

## 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 8 MC NE WS | Version |
| Order No. | 1112940000 | Group markers, Cover, 33.3 x 8 mm, Pitch in mm (P): 8.00 WDU 4, |
| GTIN (EAN) | 4032248891825 | WEW 35/2, ZEW 35/2, white |
| Qty. | 48 ST | |
| Type | WAD 8 MC NE GE | Version |
| Order No. | 1112950000 | Group markers, Cover, 33.3 x 8 mm, Pitch in mm (P): 8.00 WDU 4, |
| GTIN (EAN) | 4032248891696 | WEW 35/2, ZEW 35/2, yellow |
| Qty. | 48 ST | |