

**Z terminal with tension spring connection
ZDU 6/3AN BL**

Weidmüller Interface GmbH & Co. KG
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Germany
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www.weidmueller.com



Terminal blocks in tension clamp system and the Z Series are specially customised to the customers' requirements. Less space, spacious labelling area, integrated test point, cross-connection functionality within the Z Series and another family of terminals by Weidmüller. Z-Series terminals have a large clamping range and one or two cross-connection slots. Plug-in standard cross-connections enable potentials to be distributed over any number of terminals.

General ordering data

Order No.	7907420000
Type	ZDU 6/3AN BL
Version	Z terminal with tension spring connection, Feed-through terminal, Rated cross-section: 6 mm ² , Tension clamp connection, Wemid, Blue
GTIN (EAN)	4032248422302
Qty.	50 pc(s).

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Technical data

Dimensions and weights

Length	90 mm	Width	8.1 mm
Height	45 mm	Height of lowest version	45.5 mm
Net weight	26.89 g		

Temperatures

Operating temperature		Storage temperature	
Continuous operating temp., min.	-50 °C	Continuous operating temp., max.	120 °C

Rated data IECEx/ATEX

Certificate No. (ATEX)	KEMA00ATEX2 107U	ATEX certificate	KEMA00ATEX2 107U_d.pdf
ATEX certificate	KEMA00ATEX2 107U_e.pdf	IEC Ex certificate	IECEXULD05.0009U_e.pdf
Max. voltage (ATEX)	550 V	Current (ATEX)	36 A
Wire cross section max. (ATEX)	6 mm ²	Voltage, cross-connection	CrossConnectionGuide.pdf
Operating temperature range	For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity	Marking EN 60079-7	
Marking ATEX Directive 94/9/EC	II 2 G D		Ex e II

Additional technical data

Explosion-tested version	Yes	Number of similar terminals	1
Open sides	right	Type of mounting	Snap-on
Version	Supply terminal		

CSA ratings data

Certificate No. (CSA)	200039-1 152892	Voltage size B (CSA)	600 V
Voltage size C (CSA)	600 V	Voltage size D (CSA)	600 V
Current size B (CSA)	50 A	Current size C (CSA)	50 A
Current size D (CSA)	5 A	Wire cross section max. (CSA)	8 AWG
Wire cross section min. (CSA)	20 AWG		

Clampable wires (additional connection)

Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, min.	0.5 mm ²	Conductor cross-section, flexible plus plastic collar DIN 46228/1, further connection, max.	6 mm ²
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Technical data**Clampable wires (rated connection)**

Type of connection	Tension clamp connection	Stripping length	13 mm
Blade size	1.0 x 5.5 mm	Connection direction	top
Number of connections	3	Clamping range, rated connection, min.	0.22 mm ²
Clamping range, rated connection, max.	10 mm ²	Gauge to IEC 60947-1	A5
Wire connection cross section, solid core, max. rated connection	0.5 mm ²	Wire connection cross section, solid core max. rated connection	10 mm ²
Wire connection cross section, finely stranded, max.	10 mm ²	Wire connection cross-section, finely stranded, min.	0.5 mm ²
Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, min.	0.5 mm ²	Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, rated connection, max.	6 mm ²
Cross-section for connected conductor, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, min.	0.5 mm ²	Wire connection cross-section, finely stranded with wire-end ferrules and plastic collars DIN 46228/4, rated connection, max.	6 mm ²
Twin wire-end ferrules, min.	0.5 mm ²	Twin wire-end ferrules, max.	2.5 mm ²
Wire connection cross section AWG, min.	AWG 22	Wire connection cross section AWG, max.	AWG 8

Rated data

Rated cross-section	6 mm ²	Rated voltage	800 V
Rated impulse withstand voltage	8 kV	Rated current	41 A
Current at maximum wires	57 A	Standards	IEC 60947-7-1
Pollution severity	3		

UL ratings data

Certificate No. (UR)	E60693VOL1SEC52	Voltage size C (UR)	600 V
Current size C (UR)	50 A	Conductor size Factory wiring max. (UR)	8 AWG
Conductor size Factory wiring min. (UR)	22 AWG	Conductor size Field wiring max. (UR)	8 AWG

Material data

Insulating material	Wemid	Material	Wemid
Colour	Blue	UL 94 flammability rating	V-0

System specifications

Product family	Z terminal with tension spring connection	Type of connection	Tension clamp connection
Connection direction	top	Number of levels	1
Number of connections	3	No. of clamping points per level	3
Levels cross-connected internally	No	Mounting rail	TS 35
End cover plate required	Yes		

Classifications

ETIM 2.0	EC000897	ETIM 3.0	EC000897
UNSPSC	30-21-18-11	eClass 4.1	27-14-11-20
eClass 5.1	27-14-11-20	eClass 6.0	27-14-11-20
eClass 7.0	27-14-11-20		

Product information

Descriptive text technical data The ZH 0.5 - ZH 2.5 twin ferrules can be used.

Creation date November 19, 2012 2:39:35 PM CET

Catalogue status 06.11.2012 / We reserve the right to make technical changes.

Data sheet...

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Technical data

Approvals

Approvals



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Accessories
ZAD


Weidmüller offers users of modular terminals of the Z-Series a comprehensive range of accessories that render possible appropriate solutions for all - even non-standard - tasks.

The accessories must comply with the same quality standards as the modular terminals themselves.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609120000	ZAD 3/4	Z-series, Cover, Yellow, 10 mm	4008190209056	20 pc(s).

Group tag holders for S10


The various connector markers from Weidmüller enable users to solve virtually every labelling task on all types of lines. Whether several lines of labelling, ready-to-use markers with standard printing, or individual labelling, whether white or coloured markers or common designations at the clamping points, the comprehensive range of products represent the easy, quick and clear answer to every marking task.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1058960000	WT 6 F.S10	Terminal markers, 15.3 x 5 mm, Polyamide 66, Colour: White	4008190095468	100 pc(s).
1341060000	WT 4 F.S10	Terminal markers, 10.1 x 5 mm, Polyamide 66, Colour: White	4008190163648	100 pc(s).
1579330000	WT 5 F.S10	Terminal markers, 12.8 x 5 mm, Polyamide 66, Colour: White	4008190029609	100 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 electronics modules. The system is ideal for small groups of consecutive numbers and covers a large range of ready-printed markers. Being mounted as strips means that they are quickly clipped on in one operation. The printing is legible with good contrast, and is available in five widths.

- Large selection of ready-to-use markers
- In strips for fast installation
- Connector markers are suitable for all Weidmüller conductor connectors
- Available as blank cards, MultiCard or as cards with standard printing

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1856740000	DEK 5/8 MC NE WS	Terminal markers, MultiCard, 5 x 8 mm, Colour: White	4032248400850	800 pc(s).

Blank



WS markers are the perfect match for the connectors of the W series. But thanks to their system compatibility the WS tags can also be used with the I series and the Z series. The large areas for printing permit not only long character strings but also multiple lines. **WS markers** are ideal for labels with long, bespoke character strings. The tried-and-tested MultiCard format means that printing can be carried out with **laser** printers, **PrintJet**, **plotters** or the **MC-Mobilo**.

- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609920000	WS 12/6.5 MC NE WS	Terminal markers, MultiCard, 12 x 6.5 mm, Polyamide, Colour: White	4008190203511	540 pc(s).

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Accessories

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- Can be fitted in strips or singly
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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609900000	WS 12/6 MC NE WS	Terminal markers, MultiCard, 12 x 6 mm, Polyamide, Colour: White	4008190203467	600 pc(s).

Blank



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- Can be fitted in strips or singly
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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1609860000	WS 12/5 MC NE WS	Terminal markers, MultiCard, 12 x 5 mm, Polyamide, Colour: White	4008190203481	720 pc(s).

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Accessories

Blank



ZS markers - in the established **MultiCard**-format - were specially developed for the Z series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without having to dismount the markers. Fast fitting is guaranteed by the fact that the single tags are clipped on in strips. The single tags are also easy to separate.

- Hinged marker area
- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1610020000	ZS 12/6 MC NE WS	Terminal markers, MultiCard, 12 x 6 mm, Polyamide + POM, Colour: White	4008190444600	400 pc(s).

Blank



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- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1778270000	WS 12/3.5 MC NE WS	Terminal markers, MultiCard, 12 x 3.5 mm, Polyamide, Colour: White	4032248161041	600 pc(s).

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Accessories
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- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1635000000	WS 10/5 MC NE WS	Terminal markers, MultiCard, 10 x 5 mm, Polyamide, Colour: White	4008190261948	720 pc(s).

Custom printing


WS markers are the perfect match for the connectors of the W series. But thanks to their system compatibility the WS tags can also be used with the I series and the Z series. The large areas for printing permit not only long character strings but also multiple lines.

WS markers are ideal for labels with long, bespoke character strings. The tried-and-tested MultiCard format means that printing can be carried out with **laser** printers, **PrintJet, plotters** or the **MC-Mobilo**.

- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1640750000	WS 8/5 MC SDR	Terminal markers, MultiCard, 8 x 5 mm, Polyamide, Colour: White	4008190456627	144 pc(s).

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Accessories

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- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1828450000	WS 10/6 MC NE WS	Terminal markers, MultiCard, 10 x 6 mm, Polyamide, Colour: White	4032248350513	600 pc(s).

Blank



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- Hinged marker area
- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1610000000	ZS 10/5 MC NE WS	Terminal markers, MultiCard, 10 x 5 mm, Polyamide + POM, Colour: White	4008190263171	480 pc(s).

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Accessories

Custom printing



The **dekafix (DEK)** marker is the universal marker for all conductor and plug-in connectors as well as for electronics modules. The system is ideal for small groups of consecutive numbers and covers a large range of ready-printed markers. Being mounted as strips means that they are quickly clipped on in one operation. The printing is legible with good contrast, and is available in five widths.

- Large selection of ready-to-use markers
- In strips for fast installation
- Connector markers are suitable for all Weidmüller conductor connectors
- Available as blank cards, MultiCard or as cards with standard printing

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1856750000	DEK 5/8 MC SDR	Terminal markers, MultiCard, 5 x 8 mm, Polyamide 66, Colour: To customer specification	4032248400867	160 pc(s).

ZAP/TW 6/3AN



Weidmüller offers users of modular terminals of the Z-Series a comprehensive range of accessories that render possible appropriate solutions for all - even non-standard - tasks. The accessories must comply with the same quality standards as the modular terminals themselves.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
7907370000	ZAP/TW6/3AN	Z-series, End plate, Partition plate, Dark Beige, 2 mm	4008190576127	20 pc(s).
7907380000	ZAP/TW6/3AN BL	Z-series, End plate, Partition plate, Blue, 2 mm	4008190576110	20 pc(s).
7907390000	ZAP/TW6/3AN OR	Z-series, End plate, Partition plate, Orange, 2 mm	4008190576134	20 pc(s).

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Accessories
Screwdrivers

Always the right tools:

Weidmüller screwdrivers are the result of a consistent grip concept which takes into account both the human hand and the different requirements when working. The right blade for every screw - with four different handle sizes

The advantages are obvious:

- User-friendly: ergonomic handle arrangement for effortless working progress
- Optimised connections: compatible blade and perfect handle size for maximum torque
- Reliable: even easier operation for even quicker wiring

The result: efficient, professional working progress.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
9008350000	SDS 1.0X5.5X150	Screwdriver, Blade width (B): 5.5 mm, Blade length: 150 mm, Blade thickness (A): 1 mm	4032248056316	1 pc(s).

ZGB pivotable group tag holder


The **ZGB 15** is a hinged group tag holder. The tag holder can be fitted with the dekafix 5, WS 12/5 connector markers or with the inlay tag ESO 15.

The **ZGB 30** is a hinged group tag holder. The tag holder can be fitted with the dekafix 5, WS 12/5 connector markers or with the inlay tag ESO 7.

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

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1778290000	ZGB 30/3,5	Terminal markers, 32 x 7 mm, Polyamide 66, Colour: White	4032248161065	20 pc(s).
1636530000	ZGB 15	Terminal markers, 15 x 7 mm, Polyamide 66, Colour: White	4008190297053	20 pc(s).
1611930000	ZGB 30	Terminal markers, 32 x 7 mm, Polyamide 66, Colour: White	4008190002251	20 pc(s).

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Accessories
ZTA 3


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The accessories must comply with the same quality standards as the modular terminals themselves.

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1654050000	ZTA 3 ZDU6	Test adapter, Rated control voltage:	4008190420406	25 pc(s).

STR transparent strips


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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
0515300000	STR 7 F.SCHT 7	Terminal markers, 27 x 6.3 mm, Polyester, PVC-free, Colour: Transparent	4008190182175	20 pc(s).

ZQV 6


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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1733640000	ZQV 6/32 GE	Z-series, Accessories, Cross-connector, For the terminals, No. of poles: 32	4008190994334	10 pc(s).

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Accessories

1627870000 ZQV 6/4 GE	Z-series, Accessories, Cross-connector, For the terminals, No. of poles: 4	4008190200442 60 pc(s).
1627850000 ZQV 6/2 GE	Z-series, Accessories, Cross-connector, For the terminals, No. of poles: 2	4008190200428 60 pc(s).
1627860000 ZQV 6/3 GE	Z-series, Accessories, Cross-connector, For the terminals, No. of poles: 3	4008190200435 60 pc(s).

Blank



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- Hinged marker area
- Can be fitted in strips or singly
- Markers in proven multicard format

General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1646630000	ZS 15/5 MC NE WS	Terminal markers, MultiCard, 15 x 5 mm, Polyamide + POM, Colour: White	4008190401214	480 pc(s).

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- In strips for fast installation
- Connector markers are suitable for all Weidmüller conductor connectors
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General ordering data

Order No.	Type	Version	GTIN (EAN)	Qty.
1720620000	DEK 5/7.5 MC NE WS	Terminal markers, MultiCard, 5 x 7.5 mm, Polyamide, Colour: White	4008190362300	320 pc(s).