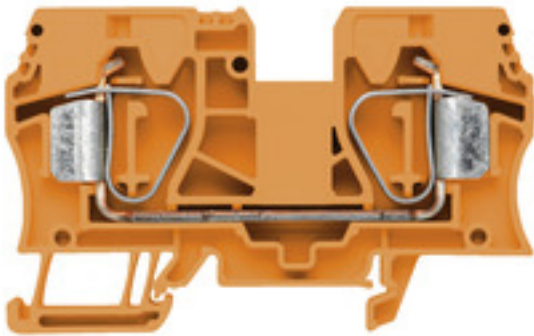


**ZDU 16 OR****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

|            |                                                                                            |
|------------|--------------------------------------------------------------------------------------------|
| Version    | Feed-through terminal, Tension-clamp connection, 16 mm <sup>2</sup> , 1000 V, 76 A, orange |
| Order No.  | <a href="#">1830680000</a>                                                                 |
| Type       | ZDU 16 OR                                                                                  |
| GTIN (EAN) | 4032248706570                                                                              |
| Qty.       | 25 pc(s).                                                                                  |

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**Technical data****Dimensions and weights**

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 50.5 mm    | Depth (inches) | 1.988 inch |
| Depth including DIN rail | 51.5 mm    | Height         | 82.5 mm    |
| Height (inches)          | 3.248 inch | Width          | 12.1 mm    |
| Width (inches)           | 0.476 inch | Net weight     | 38.52 g    |

**Temperatures**

|                                  |                |                                  |                                                                                                   |
|----------------------------------|----------------|----------------------------------|---------------------------------------------------------------------------------------------------|
| Storage temperature              |                | Operating temperature range      | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity |
|                                  | -25 °C...55 °C |                                  |                                                                                                   |
| Continuous operating temp., min. | -50            | Continuous operating temp., max. | 120                                                                                               |

**Material data**

|                           |       |        |        |
|---------------------------|-------|--------|--------|
| Material                  | Wemid | Colour | orange |
| UL 94 flammability rating | V-0   |        |        |

**Rating data IECEx/ATEX**

|                                |                                                                                                   |                                 |                    |
|--------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------|--------------------|
| Certificate No. (ATEX)         | DEMKO15ATEX1467U                                                                                  | Certificate No. (IECEX)         | IECEXULD15.0008U   |
| Max. voltage (ATEX)            | 690 V                                                                                             | Current (ATEX)                  | 68 A               |
| Wire cross section max. (ATEX) | 25 mm <sup>2</sup>                                                                                | Max. voltage (IECEX)            | 690 V              |
| Current (IECEX)                | 68 A                                                                                              | Wire cross section max. (IECEX) | 25 mm <sup>2</sup> |
| Operating temperature range    | For operating temperature range see EC Design Test Certificate / IEC Ex-Certificate of Conformity | Marking EN 60079-7              |                    |
| Ex 2014/34/EU label            | II 2 G D                                                                                          |                                 | Ex eb II C Gb      |

**System specifications**

|                               |                                                                                  |                                     |       |
|-------------------------------|----------------------------------------------------------------------------------|-------------------------------------|-------|
| Version                       | Tension-clamp connection, for plug-in cross-connector, One end without connector | End cover plate required            | Yes   |
| 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 |

**Additional technical data**

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

**CSA rating data**

|                               |                |                               |       |
|-------------------------------|----------------|-------------------------------|-------|
| Certificate No. (CSA)         | 200039-1152892 | Current size B (CSA)          | 65 A  |
| Current size C (CSA)          | 65 A           | Voltage size B (CSA)          | 600 V |
| Voltage size C (CSA)          | 600 V          | Wire cross section max. (CSA) | 4 AWG |
| Wire cross section min. (CSA) | 14 AWG         |                               |       |

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**Technical data****Conductors for clamping (rated connection)**

|                                                                                         |                     |                                                                                         |                          |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|--------------------------|
| Blade size                                                                              | 1.0 x 5.5 mm        | Clamping range, max.                                                                    | 25 mm <sup>2</sup>       |
| Clamping range, min.                                                                    | 1.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                                                | 25 mm <sup>2</sup>       |
| Connection cross-section, stranded, min.                                                | 1.5 mm <sup>2</sup> | Connection direction                                                                    | top                      |
| Gauge to IEC 60947-1                                                                    | A7                  | Number of connections                                                                   | 2                        |
| Stripping length                                                                        | 18 mm               | Type of connection                                                                      | Tension-clamp connection |
| Wire connection cross section AWG, max.                                                 | AWG 4               | Wire connection cross section AWG, min.                                                 | AWG 14                   |
| Wire connection cross section, finely stranded, max.                                    | 16 mm <sup>2</sup>  | Wire connection cross section, finely stranded, min.                                    | 1.5 mm <sup>2</sup>      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 16 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 1.5 mm <sup>2</sup>      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 16 mm <sup>2</sup>  | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 1.5 mm <sup>2</sup>      |
| Wire connection cross-section, solid core, max.                                         | 16 mm <sup>2</sup>  | Wire connection cross-section, solid core, min.                                         | 1.5 mm <sup>2</sup>      |

**Dimensions**

|              |       |
|--------------|-------|
| TS 35 offset | 42 mm |
|--------------|-------|

**General**

|                                         |       |                                         |               |
|-----------------------------------------|-------|-----------------------------------------|---------------|
| Rail                                    | TS 35 | Standards                               | IEC 60947-7-1 |
| Wire connection cross section AWG, max. | AWG 4 | Wire connection cross section AWG, min. | AWG 14        |

**Rating data**

|                                              |                    |                                 |               |
|----------------------------------------------|--------------------|---------------------------------|---------------|
| Rated cross-section                          | 16 mm <sup>2</sup> | Rated voltage                   | 1,000 V       |
| Rated DC voltage                             | 1,000 V DC         | Rated current                   | 76 A          |
| Current at maximum wires                     | 98 A               | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 0.42 mΩ            | Rated impulse withstand voltage | 8 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) | 4 AWG |
| Conductor size Factory wiring min. (UR) | 14 AWG | Conductor size Field wiring max. (UR)   | 4 AWG |
| Conductor size Field wiring min. (UR)   | 14 AWG | Current size C (UR)                     | 65 A  |
| Voltage size C (UR)                     | 600 V  |                                         |       |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000897    | ETIM 7.0    | EC000897    |
| ETIM 8.0    | 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 |             |             |

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**Technical data****Approvals**

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E60693  |

**Downloads**

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Attestation of Conformity</a><br><a href="#">IECEX Certificate</a><br><a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">EAC certificate</a><br><a href="#">INMETRO certificate</a><br><a href="#">Lloyds Register Certificate</a><br><a href="#">EAC EX Certificate</a><br><a href="#">CCC Ex Certificate</a><br><a href="#">ATEX Certificate</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                  |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>                                                                                                                                                                                                                                                                                                                                                         |
| Product Change Notification                 | <a href="#">PCN ZDU16 ZPE16 ATEX IECEX change</a>                                                                                                                                                                                                                                                                                                                                                |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">NTI ZDU/ZPE 16</a><br><a href="#">BPZL Z-Series</a>                                                                                                                                                                                                                                                                               |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                         |

### ZDU 16 OR

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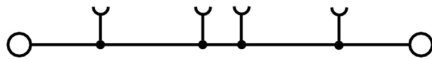
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Germany

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## Drawings



## ZDU 16 OR

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

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www.weidmueller.com

## Accessories

## 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.  | <a href="#">1061200000</a> | W-Series, End bracket |
| GTIN (EAN) | 4008190030230              |                       |
| Qty.       | 50 pc(s).                  |                       |
| Type       | WEW 35/1                   | Version               |
| Order No.  | <a href="#">1059000000</a> | W-Series, End bracket |
| GTIN (EAN) | 4008190172282              |                       |
| Qty.       | 50 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.  | <a href="#">2007190000</a> | WS, Terminal marker, 12 x 5 mm, Weidmueller, white |
| GTIN (EAN) | 4050118392036              |                                                    |
| Qty.       | 800 pc(s).                 |                                                    |

## ZDU 16 OR

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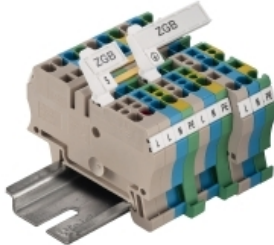
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Germany

www.weidmueller.com

## 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.

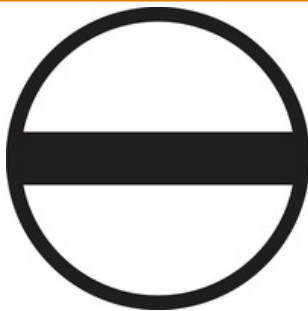
The ZGB 30 is a hinged group tag carrier. The tag carrier can hold the dekafix 5, WS 12/5 terminal markers or the inlay tag ESO 7.

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

## General ordering data

|            |                            |                                                                     |
|------------|----------------------------|---------------------------------------------------------------------|
| Type       | ZGB 30                     | Version                                                             |
| Order No.  | <a href="#">1611930000</a> | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190002251              | Weidmueller, white                                                  |
| Qty.       | 20 pc(s).                  |                                                                     |
| Type       | ZGB 30/3.5                 | Version                                                             |
| Order No.  | <a href="#">1778290000</a> | Terminal markers, Terminal marker, 32 x 7 mm, Pitch in mm (P): 3.50 |
| GTIN (EAN) | 4032248161065              | white                                                               |
| Qty.       | 20 pc(s).                  |                                                                     |
| Type       | ZGB 15                     | Version                                                             |
| Order No.  | <a href="#">1636530000</a> | Terminal markers, Terminal marker, 15 x 7 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190297053              | Weidmueller, white                                                  |
| Qty.       | 20 pc(s).                  |                                                                     |

## Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

## General ordering data

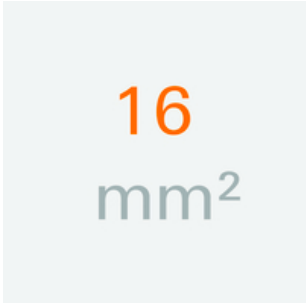
|            |                            |                                                                   |
|------------|----------------------------|-------------------------------------------------------------------|
| Type       | SDS 1.0X5.5X150            | Version                                                           |
| Order No.  | <a href="#">2749380000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 150 mm, Blade |
| GTIN (EAN) | 4050118895605              | thickness (A): 1 mm                                               |
| Qty.       | 1 pc(s).                   |                                                                   |

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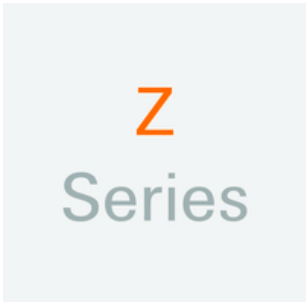
Germany

[www.weidmueller.com](http://www.weidmueller.com)**Accessories****16 mm<sup>2</sup>**16  
mm<sup>2</sup>

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

**General ordering data**

|            |                            |                                    |
|------------|----------------------------|------------------------------------|
| Type       | ZQV 16/2                   | Version                            |
| Order No.  | <a href="#">1739690000</a> | Accessories, Cross-connector, 76 A |
| GTIN (EAN) | 4008190957148              |                                    |
| Qty.       | 25 pc(s).                  |                                    |

**Z-Series**Z  
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       | ZAD 5/5                    | Version         |
| Order No.  | <a href="#">1745210000</a> | Z-series, Cover |
| GTIN (EAN) | 4008190071448              |                 |
| Qty.       | 20 pc(s).                  |                 |



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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       | WS 12/5 MC NE WS           | Version                                                            |
| Order No.  | <a href="#">1609860000</a> | WS, Terminal marker, 12 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190203481              | Allen-Bradley, white                                               |
| Qty.       | 720 pc(s).                 |                                                                    |

**Test plugs**

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       | PS 2.3 RT                  | Version                |
| Order No.  | <a href="#">0180400000</a> | Accessories, Test plug |
| GTIN (EAN) | 4008190060121              |                        |
| Qty.       | 20 pc(s).                  |                        |

## ZDU 16 OR

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## Accessories

## STR transparent strips



## General ordering data

|            |                            |                                                            |
|------------|----------------------------|------------------------------------------------------------|
| Type       | STR 7 F.SCHT 7             | Version                                                    |
| Order No.  | <a href="#">0515300000</a> | Terminal markers, Protective cap, 27 x 6.3 mm, Transparent |
| GTIN (EAN) | 4008190182175              |                                                            |
| Qty.       | 20 pc(s).                  |                                                            |

## Blank



ZS markers - in proven MultiCard-format - have been developed specifically for the Z-series. They have a large printing area. The hinged mechanism even allows access to cross-connectors without dismantling. Quick installation is guaranteed by the fact that the single tags are clipped on in strips. The single tags are easy to separate.

- Hinged marker area
- 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       | ZS 15/5 MC NE WS           | Version                                                            |
| Order No.  | <a href="#">1646630000</a> | ZS, Terminal marker, 15 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190401214              | Allen-Bradley, white                                               |
| Qty.       | 480 pc(s).                 |                                                                    |

## ZDU 16 OR

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## Accessories

## Z-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       | ZEW 35                     | Version               |
| Order No.  | <a href="#">9540000000</a> | Z-series, End bracket |
| GTIN (EAN) | 4008190956264              |                       |
| Qty.       | 20 pc(s).                  |                       |
| Type       | ZEW 35/2                   | Version               |
| Order No.  | <a href="#">8630740000</a> | Z-series, End bracket |
| GTIN (EAN) | 4032248348916              |                       |
| Qty.       | 20 pc(s).                  |                       |

## SAK-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       | EW 35                      | Version                  |
| Order No.  | <a href="#">0383560000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190181314              |                          |
| Qty.       | 50 pc(s).                  |                          |
| Type       | EW 35 GR 7032              | Version                  |
| Order No.  | <a href="#">0383530000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190027322              |                          |
| Qty.       | 50 pc(s).                  |                          |
| Type       | EW 35/SCHA/M3              | Version                  |
| Order No.  | <a href="#">0258660000</a> | Accessories, End bracket |
| GTIN (EAN) | 4008190033477              |                          |
| Qty.       | 20 pc(s).                  |                          |

## ZDU 16 OR

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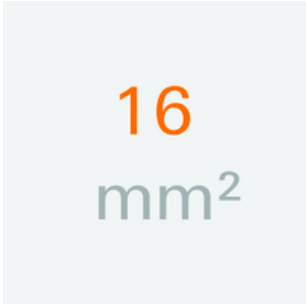
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## Accessories

16 mm<sup>2</sup>


16  
mm<sup>2</sup>

End plates are fitted to the open side of the last modular terminal before the end bracket. The use of an end plate ensures the function of the modular terminal and the specified rated voltage. It guarantees protection against contact with live parts and makes the final terminal finger-proof.

## General ordering data

|            |                            |                                      |
|------------|----------------------------|--------------------------------------|
| Type       | ZAP/TW ZDU16 OR            | Version                              |
| Order No.  | <a href="#">1745160000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190136307              |                                      |
| Qty.       | 20 pc(s).                  |                                      |
| Type       | ZAP/TW ZDU16 BL            | Version                              |
| Order No.  | <a href="#">1764100000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190294007              |                                      |
| Qty.       | 20 pc(s).                  |                                      |
| Type       | ZAP/TW ZDU16               | Version                              |
| Order No.  | <a href="#">1745150000</a> | Z-series, End plate, Partition plate |
| GTIN (EAN) | 4008190996796              |                                      |
| Qty.       | 20 pc(s).                  |                                      |

## 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).               |                                                           |

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