

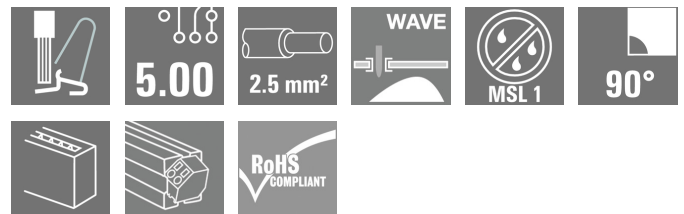
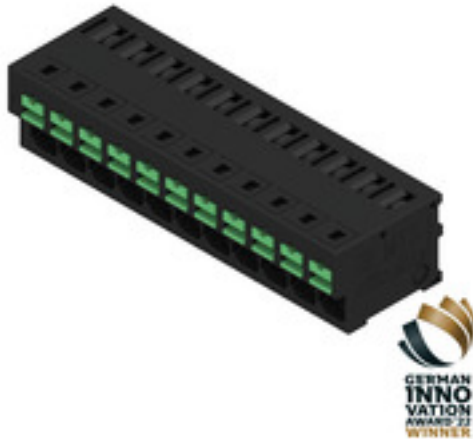
**MTS 5/11 H T4 B T****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****SNAP IN** **General ordering data**

|              |   |
|--------------|---|
| Version      | Printed circuit board terminals, PCB terminal, THT solder connection, Pitch in mm (P): 5.00 mm, Number of poles: 11, Tube |
| Order No.    | <a href="#">2913690000</a>  |
| Type         | MTS 5/11 H T4 B T   |
| GTIN (EAN)   | 4099986539686   |
| Qty.         | 9 pc(s).  |
| Product data | IEC: 400 V / 32 A / 0.5 - 4 mm²<br>UL: 300 V / 18.5 A / AWG 20 - AWG 12   |
| Packaging    | Tube  |

Creation date October 2, 2024 6:12:54 PM CEST

Catalogue status 28.09.2024 / We reserve the right to make technical changes.

## MTS 5/11 H T4 B T

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## Technical data

## Dimensions and weights

|                          |            |                 |            |
|--------------------------|------------|-----------------|------------|
| Depth                    | 18.85 mm   | Depth (inches)  | 0.742 inch |
| Height                   | 16.7 mm    | Height (inches) | 0.657 inch |
| Height of lowest version | 13.2 mm    | Width           | 57.3 mm    |
| Width (inches)           | 2.256 inch | Net weight      | 16 g       |

## Temperatures

|                          |                  |
|--------------------------|------------------|
| Installation temperature | -50 °C to +70 °C |
|--------------------------|------------------|

## System parameters

|  |                        |       |
|--|------------------------|-------|
| Product family                               | OMNIMATE 4.0           |       |
| Wire connection method                       | SNAP IN                |       |
| Property, clamping point                     | WireReady              |       |
| Mounting onto the PCB                        | THT solder connection  |       |
| Conductor outlet direction                   | 90°                    |       |
| Pitch in mm (P)                              | 5 mm                   |       |
| Pitch in inches (P)                          | 0.197 "                |       |
| Number of poles                              | 11                     |       |
| Pin series quantity                          | 1                      |       |
| Number of rows                               | 1                      |       |
| Solder pin length (l)                        | 3.5 mm                 |       |
| Solder pin dimensions                        | 0.6 x 0.8 mm           |       |
| Solder eyelet hole diameter (D)              | 1.3 mm                 |       |
| Solder eyelet hole diameter tolerance (D)+   | 0,1 mm                 |       |
| Number of solder pins per pole               | 2                      |       |
| Stripping length                             | 9 mm                   |       |
| Stripping length tolerance                   | min.                   | 8 mm  |
|  | max.                   | 10 mm |
| L1 in mm                                     | 50 mm                  |       |
| L1 in inches                                 | 1.969 "                |       |
| Touch-safe protection acc. to DIN VDE 0470   | IP 20                  |       |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |       |
| Protection degree                            | IP20                   |       |

## Material data

|                                  |          |                             |          |
|----------------------------------|----------|-----------------------------|----------|
| Insulating material              | PA 9T    | Colour                      | black    |
| Colour chart (similar)           | RAL 9011 | Insulating material group   | I        |
| Comparative Tracking Index (CTI) | ≥ 600    | Moisture Level (MSL)        | 1        |
| UL 94 flammability rating        | V-0      | Contact material            | Cu-alloy |
| Contact surface                  | tinned   | Tinning type                | matt     |
| Storage temperature, min.        | -25 °C   | Storage temperature, max.   | 55 °C    |
| Operating temperature, min.      | -50 °C   | Operating temperature, max. | 120 °C   |

## Conductors suitable for connection

|   |                      |
|---|----------------------|
| Clamping range, min.                    | 0.34 mm <sup>2</sup> |
| Clamping range, max.                    | 4 mm <sup>2</sup>    |
| Wire connection cross section AWG, min. | AWG 12               |
| Wire connection cross section AWG, max. | AWG 20               |

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|   |  |
|---|--|
| Solid, min. H05(07) V-U                         | 0.5 mm <sup>2</sup>                                      |
| Solid, max. H05(07) V-U                         | 2.5 mm <sup>2</sup>                                      |
| Flexible, min. H05(07) V-K                      | 0.5 mm <sup>2</sup>                                      |
| Flexible, max. H05(07) V-K                      | 4 mm <sup>2</sup>  |
| w. plastic collar ferrule, DIN 46228 pt 4, min. | 0.34 mm <sup>2</sup>                                     |
| w. plastic collar ferrule, DIN 46228 pt 4, max. | 2.5 mm <sup>2</sup>                                      |
| w. wire end ferrule, DIN 46228 pt 1, min.       | 0.5 mm <sup>2</sup>                                      |
| w. wire end ferrule, DIN 46228 pt 1, max.       | 2.5 mm <sup>2</sup>                                      |
| Outer diameter of insulation, max.              | 4 mm   |
| Clampable conductor                             |  |
| Cross-section for conductor connection          | nominal 0.34 mm  |
| wire end ferrule                                | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H0.34/12 TK</a> |
| Cross-section for conductor connection          | nominal 0.5 mm <sup>2</sup>                              |
| wire end ferrule                                | Stripping length nominal 12 mm                           |
|   | Recommended wire-end ferrule <a href="#">H0.5/16 OR</a>  |
|   | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H0.5/10</a>     |
| Cross-section for conductor connection          | nominal 0.75 mm <sup>2</sup>                             |
| wire end ferrule                                | Stripping length nominal 12 mm                           |
|   | Recommended wire-end ferrule <a href="#">H0.75/16 W</a>  |
|   | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H0.75/10</a>    |
| Cross-section for conductor connection          | nominal 1 mm <sup>2</sup>                                |
| wire end ferrule                                | Stripping length nominal 12 mm                           |
|   | Recommended wire-end ferrule <a href="#">H1.0/16 GE</a>  |
|   | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H1.0/10</a>     |
| Cross-section for conductor connection          | nominal 1.5 mm <sup>2</sup>                              |
| wire end ferrule                                | Stripping length nominal 12 mm                           |
|   | Recommended wire-end ferrule <a href="#">H1.5/16 R</a>   |
|   | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H1.5/10</a>     |
| Cross-section for conductor connection          | nominal 2.5 mm <sup>2</sup>                              |
| wire end ferrule                                | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H2.5/15D BL</a> |
|   | Stripping length nominal 10 mm                           |
|   | Recommended wire-end ferrule <a href="#">H2.5/10</a>     |

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## Technical data

## Rated data acc. to IEC

|   |                        |   |       |
|---|------------------------|---|-------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 32 A  |
| Rated current, max. number of poles (Tu=20°C)                             | 32 A                   | Rated current, min. number of poles (Tu=40°C)                         | 32 A  |
| Rated current, max. number of poles (Tu=40°C)                             | 32 A                   | Rated voltage for surge voltage class / pollution degree II/2         | 400 V |
| Rated voltage for surge voltage class / pollution degree III/2            | 320 V                  | Rated voltage for surge voltage class / pollution degree III/3        | 250 V |
| Rated impulse voltage for surge voltage class/ pollution degree II/2      | 4 kV                   | Rated impulse voltage for surge voltage class/ pollution degree III/2 | 4 kV  |
| Rated impulse voltage for surge voltage class/ contamination degree III/3 | 4 kV                   |   |       |

## Rated data acc. to CSA

|                               |        |                               |        |
|-------------------------------|--------|-------------------------------|--------|
| Wire cross-section, AWG, min. | AWG 20 | Wire cross-section, AWG, max. | AWG 12 |
|-------------------------------|--------|-------------------------------|--------|

## Rated data acc. to UL 1059

|                                       |  |                                       |  |
|---------------------------------------|--|---------------------------------------|--|
| Institute (cURus)                     |  | Certificate No. (cURus)               | E60693   |
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group D / UL 1059) | 300 V  |
| Rated voltage (Use group F / UL 1059) | 420 V  | Rated current (Use group B / UL 1059) | 18.5 A   |
| Rated current (Use group D / UL 1059) | 10 A   | Wire cross-section, AWG, min.         | AWG 20   |
| Wire cross-section, AWG, max.         | AWG 12   | Clearance distance, min.              | 4 mm   |
| Creepage distance, min.               | 5.6 mm   | Reference to approval values          | Specifications are maximum values, details - see approval certificate. |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002643    | ETIM 7.0    | EC002643    |
| ETIM 8.0    | EC002643    | ETIM 9.0    | EC002643    |
| ECLASS 9.0  | 27-44-04-01 | ECLASS 9.1  | 27-44-04-01 |
| ECLASS 10.0 | 27-44-04-01 | ECLASS 11.0 | 27-46-01-01 |
| ECLASS 12.0 | 27-46-01-01 | ECLASS 13.0 | 27-46-01-01 |
| ECLASS 14.0 | 27-46-01-01 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| REACH SVHC             | /                           |
| RoHS Compliance Status | Compliant without exemption |

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## Technical data

## Important note

|                |  |
|----------------|--|
| IPC conformity | Conformity: The products are developed, manufactured and delivered according international recognized standards and norms and comply with the assured properties in the data sheet resp. fulfill decorative properties in accordance with IPC-A-610 "Class 2". Further claims on the products can be evaluated on request.   |
| Notes          | <ul style="list-style-type: none"> <li>Rated current related to rated cross-section &amp; min. No. of poles.</li> <li>P on drawing = pitch</li> <li>Rated data refer only to the component itself. Clearance and creepage distances to other components are to be designed in accordance with the relevant application standards.</li> <li>Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li> </ul> |

## Approvals

Approvals



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

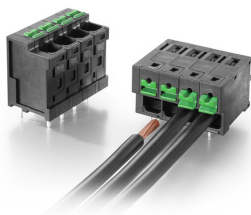
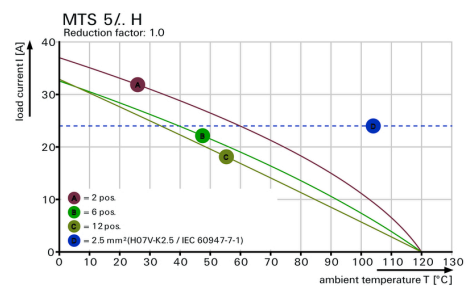
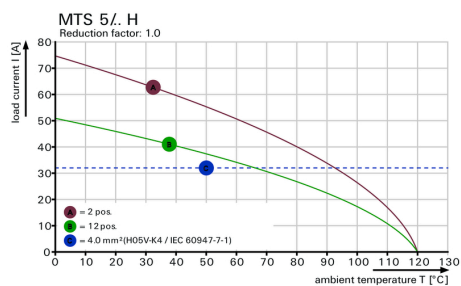
## Downloads

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">cURus CoC E60693 MTS5_202310.pdf Declaration of the Manufacturer</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification                 | <a href="#">Technical change to MTS 5 - Packaging</a>                            |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>   |

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## Drawings

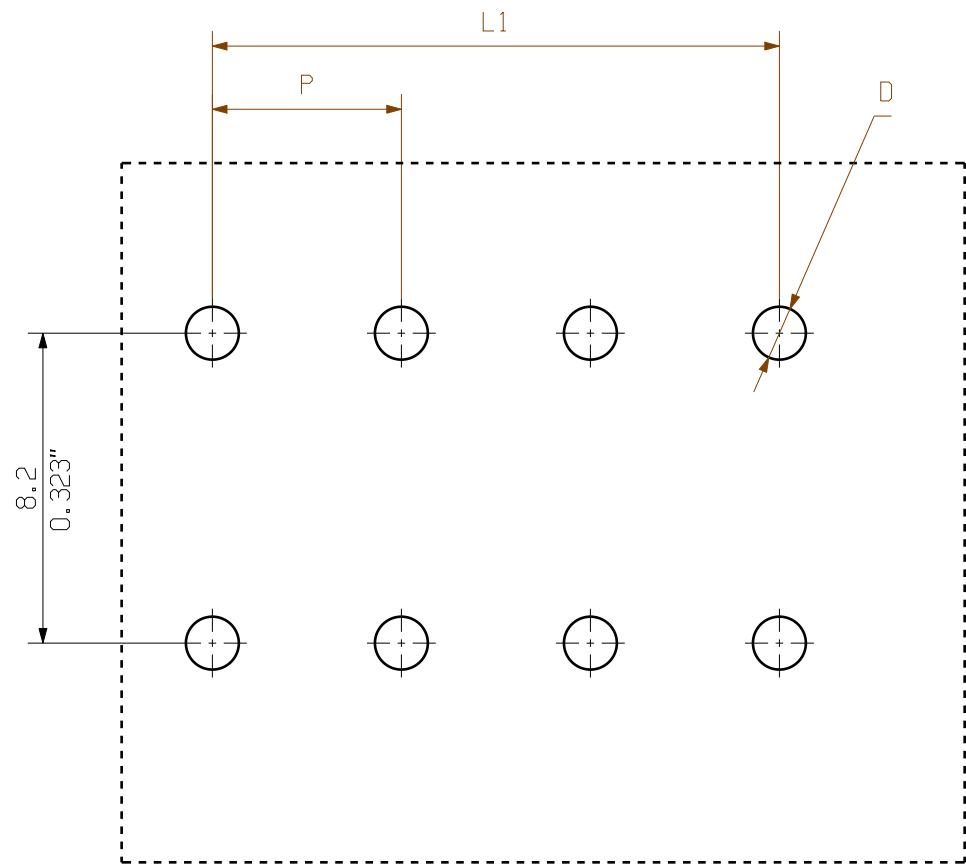
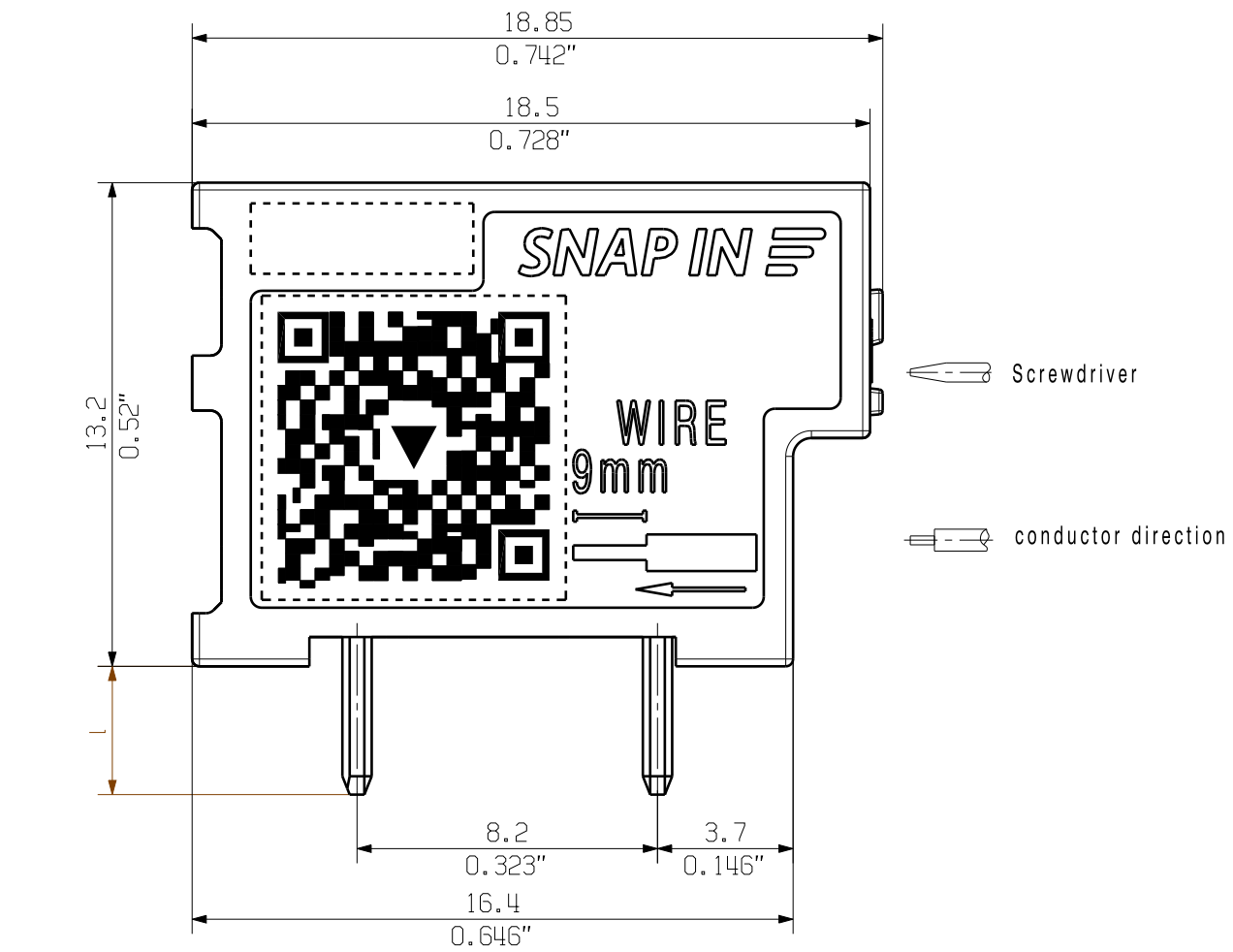
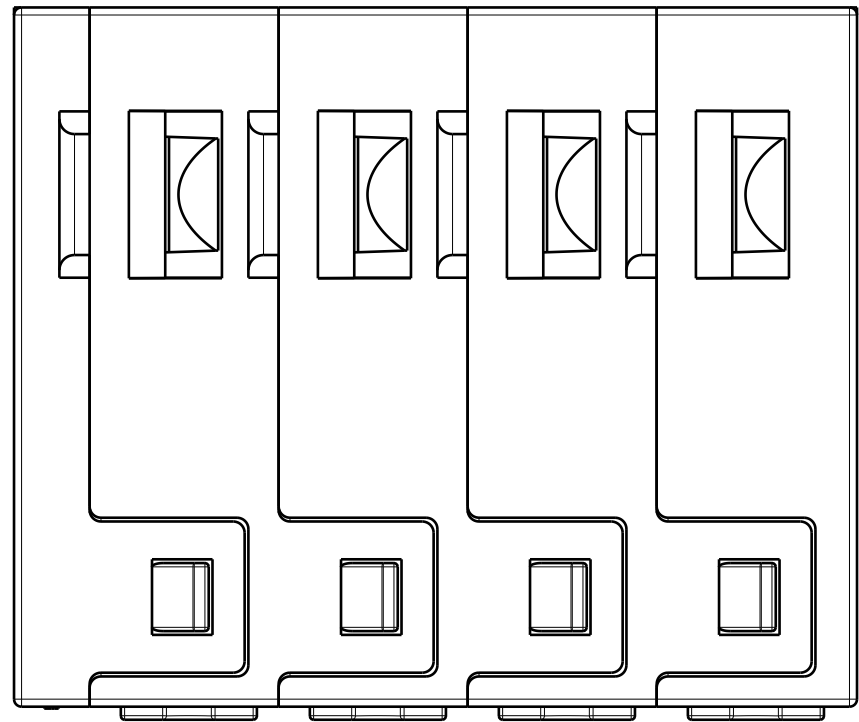
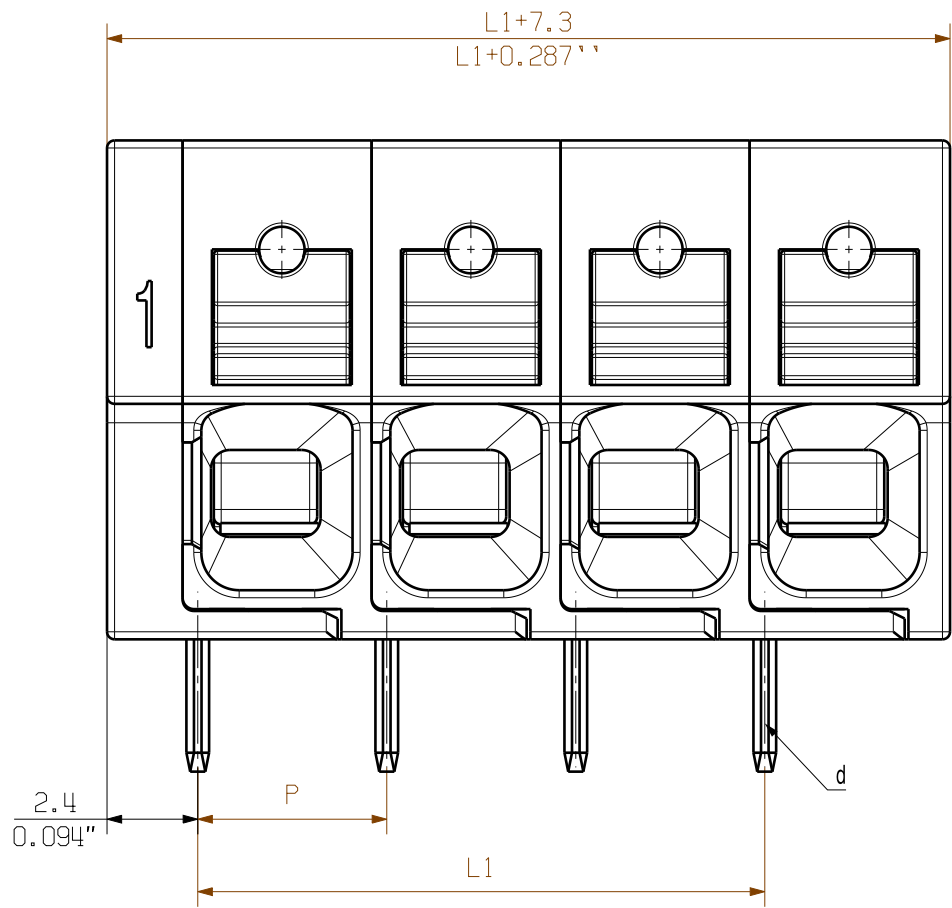
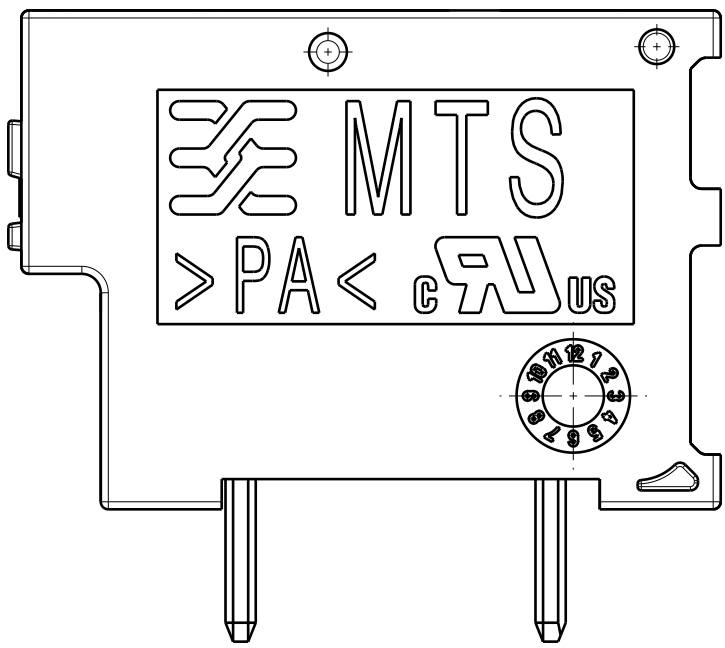
## A black plastic D-sub connector with 16 pins. It features a metal shield that covers the pins, which are arranged in two rows of eight. The connector has a standard D-sub shape with a mounting tab on one side.



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The English version is binding



Hole pattern

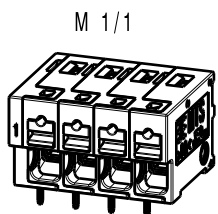
The dimensions and tolerances specified on the customer drawing reflect the geometry in dry condition and do not consider humidity and temperature effects.  
A specific agreement / specification between manufacturer and customer is required if certain dimensions including tolerances must be guaranteed under environmental conditions in the storage phase or the application (e.g. high humidity and / or temperature).

For the mounting of PCBs, it should be noted that the rated data relates only to the PCB components alone.  
The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to IEC 60664-1 (VDE 0110).  
The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 60326-3 very fine.

Weidmüller PCB components are tested to the IEC 60947-7-4 standard, and are valid for its field of application.  
Provided that the components are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

General customer drawing, topical version only if required

P= 5.00  
0.197" Pitch  
D= Ø1.3 +0.1  
0.051"  
d= 0.6x0.8  
0.024"x0.031"  
l= 3.5  
0.138"



|         |         |           |
|---------|---------|-----------|
| 12      | 55.00   | 2.165     |
| 11      | 50.00   | 1.969     |
| 10      | 45.00   | 1.772     |
| 9       | 40.00   | 1.575     |
| 8       | 35.00   | 1.378     |
| 7       | 30.00   | 1.181     |
| 6       | 25.00   | 0.984     |
| 5       | 20.00   | 0.787     |
| 4       | 15.00   | 0.591     |
| 3       | 10.00   | 0.394     |
| 2       | 5.00    | 0.197     |
| n Poles | L1 [mm] | L1 [inch] |

|                       |              |   |  |  |  |
|-----------------------|--------------|---|--|--|--|
| General Tolerances: . |              |   | Tolerances ISO 8015  |  |  |
| Changes: EC00009583   |              |   | <div><b>Weidmüller</b> </div> <div>77712</div> <div><div>Drawing no. 1</div><div>Index</div></div> <div><div>Scale: 5:1</div><div>Sheet 2 / 3</div></div> |  |  |
| Mat. No. (SAP)        |              |   |  |  |  |
| Drawings Assembly     |              |   |  |  |  |
| Drawn                 | Xiang, Keqin |  | <div>MTS 5/.../H...</div> <div>PCB TERMINAL</div> <div>LEITERPLATTENKLEMME</div> <div></div>  |  |  |
| Responsible           | Xiang, Keqin |   |  |  |  |
| Approved              | Xu, Shary    |   |  |  |  |
| 17.10.2023            |              |   |  |  |  |
|                       |              |   |  |  |  |
|                       |              |   |  |  |  |
|                       |              |   |  |  |  |

## Recommended wave soldering profiles

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Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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### Single Wave:



### Double Wave:



### Wave soldering profiles

Wired connection elements should be processed in accordance with the DIN EN 61760-1 standard. We have included two recommendations for practical wave soldering profiles, with which Weidmüller PCB terminals and connectors are qualified.

When choosing a suitable profile for your application, the following factors also need to be considered:

- PCB thickness
- Proportion of Cu in the layers
- Single/double-sided assembly
- Product range
- Heating and cooling rates

The single and double wave profiles each indicate the recommended operating range, including the maximum soldering temperature of 260°C. In practice, the maximum soldering temperature is quite often well below the above maximum profile.

We reserve the right to make technical changes.