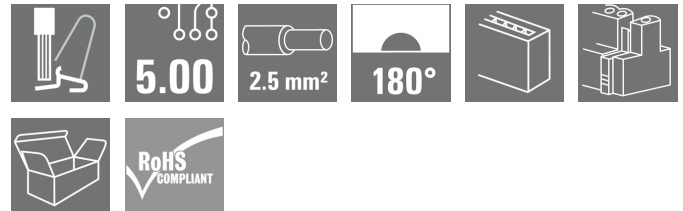


**MPS 5/05 D11 S F4 TN B B****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****SNAP IN** **OMNIMATE® 4.0 - the next evolution step**

OMNIMATE® 4.0 follows the trend of One Cable Technology (OCT). The modular concept enables the fast configuration of hybrid interfaces, which transmit data, signals and energy in a single connector. As a result, you can reduce the cabling effort in a wide variety of applications, simplify maintenance and accelerate automation processes. The unique SNAP IN connection is the backbone and speeds up the wiring process.

**The fastest connection yet**

- Fast, safe, and tool-free wiring due to unique SNAP IN connection
- Ready for Robot through "wire ready" delivery with open clamping point
- Optical and acoustic feedback indicates proper wiring

**Create your own configuration**

- Flexible configuration and ordering via the Weidmüller Configurator (WMC)
- Dispatch within three days – even for individually configured products
- Automatic offer preparation for the configured product

**Simply configuration of modular hybrid connectors**

- Flexible combination options for power, signal and data transmission
- Future-proof Single-Pair Ethernet technology

**General ordering data**

|              |   |
|--------------|---|
| Version      | PCB plug-in connector, female plug, Pitch in mm (P): 5.00 mm, Number of poles: 5, 180°, Box |
| Order No.    | <a href="#">2741910000</a>  |
| Type         | MPS 5/05 D11 S F4 TN B B  |
| GTIN (EAN)   | 4064675055365   |
| Qty.         | 48 pc(s).   |
| Product data | IEC: 400 V / 26.8 A / 0.5 - 4 mm²<br>UL: 300 V / 18.5 A / AWG 18 - AWG 14                   |
| Packaging    | Box   |

## MPS 5/05 D11 S F4 TN B B

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 36 mm    | Depth (inches)  | 1.417 inch |
| Height     | 17.53 mm | Height (inches) | 0.69 inch  |
| Width      | 35.2 mm  | Width (inches)  | 1.386 inch |
| Net weight | 31.092 g |                 |            |

## System Parameters

|  |                        |       |
|--|------------------------|-------|
| Product family                               | OMNIMATE 4.0           |       |
| Type of connection                           | Field connection       |       |
| Wire connection method                       | SNAP IN                |       |
| Pitch in mm (P)                              | 5 mm                   |       |
| Pitch in inches (P)                          | 0.197 "                |       |
| Conductor outlet direction                   | 180°                   |       |
| Number of poles                              | 5                      |       |
| L1 in mm                                     | 20 mm                  |       |
| L1 in inches                                 | 0.787 "                |       |
| Number of rows                               | 1                      |       |
| Pin series quantity                          | 1                      |       |
| Touch-safe protection acc. to DIN VDE 57 106 | Safe from finger touch |       |
| Touch-safe protection acc. to DIN VDE 0470   | IP 20                  |       |
| Protection degree                            | IP20                   |       |
| Volume resistance                            | ≤5 mΩ                  |       |
| Stripping length                             | 9 mm                   |       |
| Stripping length tolerance                   | min.                   | 8 mm  |
|  | max.                   | 10 mm |
| Plugging cycles                              | 25                     |       |
| Plugging force/pole, max.                    | 8.5 N                  |       |
| Pulling force/pole, max.                     | 8.5 N                  |       |

## Material data

|                                  |          |                             |        |
|----------------------------------|----------|-----------------------------|--------|
| Insulating material              | PBT GF   | Colour                      | black  |
| Colour chart (similar)           | RAL 9011 | Insulating material group   | I      |
| Comparative Tracking Index (CTI) | ≥ 600    | UL 94 flammability rating   | V-0    |
| Contact material                 | Cu-alloy | Contact surface             | tinned |
| Storage temperature, min.        | -25 °C   | Storage temperature, max.   | 55 °C  |
| Operating temperature, min.      | -40 °C   | Operating temperature, max. | 85 °C  |

## Conductors suitable for connection

|  |                      |
|--|----------------------|
| Clamping range, min.   | 0.34 mm <sup>2</sup> |
| Clamping range, max.   | 4 mm <sup>2</sup>    |
| 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, 0.34 mm <sup>2</sup> min. |                      |
| w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm <sup>2</sup> max.  |                      |
| w. wire end ferrule, DIN 46228 pt 1, 0.34 mm <sup>2</sup> min.       |                      |
| w. wire end ferrule, DIN 46228 pt 1, 2.5 mm <sup>2</sup> max.        |                      |

Creation date October 4, 2024 5:32:59 AM CEST

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## Technical data

|                                    |  |                              |                             |
|------------------------------------|--|------------------------------|-----------------------------|
| Outer diameter of insulation, max. | 4 mm                                   |                              |                             |
| Clampable conductor                | Cross-section for conductor connection | nominal                      | 0.34 mm <sup>2</sup>        |
|                                    | 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>     |

Reference text The outside diameter of the plastic collar should not be larger than the pitch (P). Length of ferrules is to be chosen depending on the product and the rated voltage.

## Rated data acc. to IEC

|   |                        |   |        |
|---|------------------------|---|--------|
| tested acc. to standard   | IEC 60664-1, IEC 61984 | Rated current, min. number of poles (Tu=20°C)                         | 26.8 A |
| Rated current, max. number of poles (Tu=20°C)                             | 19.7 A                 | Rated current, min. number of poles (Tu=40°C)                         | 23.1 A |
| Rated current, max. number of poles (Tu=40°C)                             | 16.9 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                   |   |        |

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## Technical data

## Rated data acc. to UL 1059

|                                       |        |                                       |        |
|---------------------------------------|--------|---------------------------------------|--------|
| Rated voltage (Use group B / UL 1059) | 300 V  | Rated voltage (Use group D / UL 1059) | 300 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 18 | Wire cross-section, AWG, max.         | AWG 14 |

## Technical data - hybrid (data)

|  |  |   |  |
|--|--|---|--|
| Connection technology (Data)                               | Insulation displacement connection (IDC)                                       | Connector Standard (Data)                     | IEC 63171-2                              |
| Contact material (Data)                                    | Bronze tin-plated  | Housing main material (Data)                  | zinc diecast nickel-plated               |
| Material locking lever (Data)                              | Stainless steel  | Shielding material (Data)                     | bronze tin-plated                        |
| Material insulator (Data)                                  | PC UL94 V0   | Sheath diameter, min. (Data)                  | 3.6 mm                                   |
| Sheath diameter, max. (Data)                               | 5.7 mm   | Insulation cross-section, min. (Data)         | 0.85                                     |
| Insulation cross-section, max. (Data)                      | 1.6  | Dielectric strength, contact / contact (Data) | ≥ 1000 V DC                              |
| Dielectric strength, contact / shield (Data)               | ≤ 1500 V DC  | Current-carrying capacity (Data)              | 1.4 A                                    |
| Contact resistance (Data)                                  | ≤ 20 mΩ  | Insulation strength (Data)                    | ≥ 500 MΩ                                 |
| Network standard (Data)                                    | IEEE 802.3bw (100 BaseT1), IEEE 802.3cg (10BaseT1), IEEE 802.3bp (1000 BaseT1) | PoE / PoE+ (Data)                             | PoDL acc. to IEEE 802.3bu / cg           |
| Application-specific communication cable facilities (Data) | ISO/IEC 11801-1 Amd.1, ISO/IEC 11801-3 Amd.1, ISO/IEC 11801-6 Amd.1            | Ability to reconnect (Data)                   | ≤ 4 cycles (with the same cross-section) |

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## Technical data

## Technical data - hybrid (signal)

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Number of poles (Signal)   | 5                   | Pitch in mm (Signal)   | 5 mm                |
| Pitch in inches (Signal)   | 0.197 "             | Contact material (Signal)  | CuSn                |
| Contact surface (Signal)   | tinned              | Clamping range, min. (Signal)  | 0.5 mm <sup>2</sup> |
| Clamping range, max. (Signal)  | 4 mm <sup>2</sup>   | Wire cross-section, AWG, min. (Signal)   | AWG 20              |
| Wire cross-section, AWG, max. (Signal)   | AWG 12              | w. plastic collar ferrule, DIN 46228 pt 4, min. (Signal)                       | 0.5 mm <sup>2</sup> |
| w. plastic collar ferrule, DIN 46228 pt 4, max. (Signal)                       | 2.5 mm <sup>2</sup> | w. wire end ferrule, DIN 46228 pt 1, min. (Signal)                             | 0.5 mm <sup>2</sup> |
| w. wire end ferrule, DIN 46228 pt 1, max. (Signal)                             | 2.5 mm <sup>2</sup> | Flexible, min. H05(07) V-K (Signal)  | 0.5 mm <sup>2</sup> |
| Flexible, max. H05(07) V-K (Signal)  | 4 mm <sup>2</sup>   | Solid, min. H05(07) V-U (Signal)   | 0.5 mm <sup>2</sup> |
| Solid, max. H05(07) V-U (Signal)   | 2.5 mm <sup>2</sup> | Outside diameter of the insulation, max. (Signal)                              | 4 mm                |
| Stripping length (Signal)  | 9 mm                | Rated current (Use group B / UL 1059) (Signal)                                 | 18.5 A              |
| Rated current (Use group C / UL 1059) (Signal)                                 | 18.5 A              | Rated current (Use group D / UL 1059) (Signal)                                 | 10 A                |
| Rated current, min. number of poles (Tu=20°C) (Signal)                         | 26.8 A              | Rated current, max. number of poles (Tu=20°C) (Signal)                         | 19.7 A              |
| Rated current, min. number of poles (Tu=40°C) (Signal)                         | 23.1 A              | Rated current, max. number of poles (Tu=40°C) (Signal)                         | 16.9 A              |
| Rated impulse voltage for surge voltage class/ pollution degree II/2 (Signal)  | 4 kV                | Rated impulse voltage for surge voltage class/ pollution degree III/2 (Signal) | 4 kV                |
| Rated impulse voltage for surge voltage class/ pollution degree III/3 (Signal) | 4 kV                | Rated voltage (Use group B / UL 1059) (Signal)                                 | 600 V               |
| Rated voltage (Use group C / UL 1059) (Signal)                                 | 600 V               | Rated voltage (Use group D / UL 1059) (Signal)                                 | 600 V               |
| Rated voltage for surge voltage class / pollution degree II/2 (Signal)         | 400 V               | Rated voltage for surge voltage class / pollution degree III/2 (Signal)        | 320 V               |
| Rated voltage for surge voltage class / pollution degree III/3 (Signal)        | 250 V               | Clearance distance, min. (Signal)  | 7.5 mm              |
| Creepage distance, min. (Signal)   | 7.5 mm              |  |                     |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002638    | ETIM 7.0    | EC002638    |
| ETIM 8.0    | EC002638    | ETIM 9.0    | EC002638    |
| ECLASS 9.0  | 27-44-03-09 | ECLASS 9.1  | 27-44-03-09 |
| ECLASS 10.0 | 27-44-03-09 | ECLASS 11.0 | 27-46-02-02 |
| ECLASS 12.0 | 27-46-02-02 | ECLASS 13.0 | 27-46-02-02 |
| ECLASS 14.0 | 27-46-02-02 |             |             |

## Environmental Product Compliance

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

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[www.weidmueller.com](http://www.weidmueller.com)**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>• Wire end ferrule without plastic collar to DIN 46228/1</li><li>• In accordance with IEC 61984, OMNIMATE-connectors are connectors without breaking capacity (COC). During designated use, connectors are not allowed to be engaged or disengaged when live or under load</li><li>• Long term storage of the product with average temperature of 50 °C and maximum humidity 70%, 36 months</li></ul> |

**Approvals**

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

**Downloads**

|   |  |
|---|--|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of the Manufacturer</a>                        |
| Engineering Data                            | <a href="#">CAD data – STEP</a>  |
| User Documentation                          | <a href="#">Assembly instructions MPS 5 D11 and MPS 7S-5 D11 EN DE</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                               |

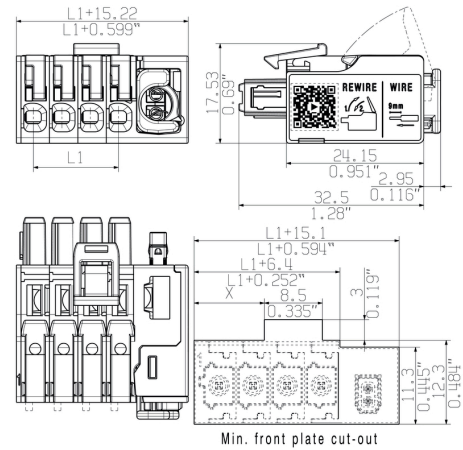
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D-32758 Detmold  
Germany

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# Drawings

## Dimensional drawing



## Product benefits

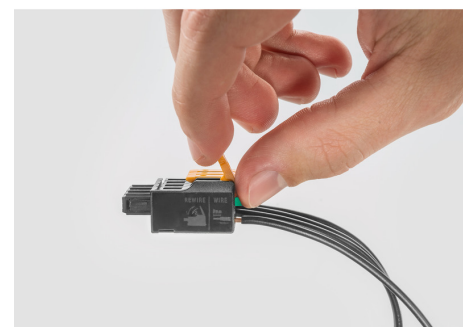


Fastest connection technology SNAP IN

## Product benefits



Acoustic and visual feedback



### MPS 5/05 D11 S F4 TN B B

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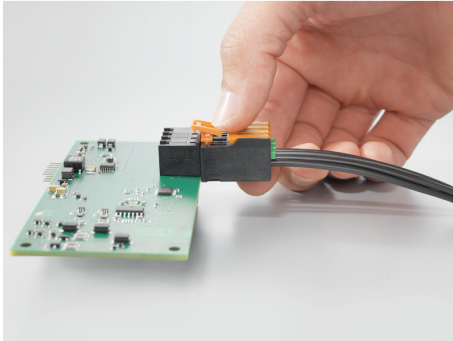
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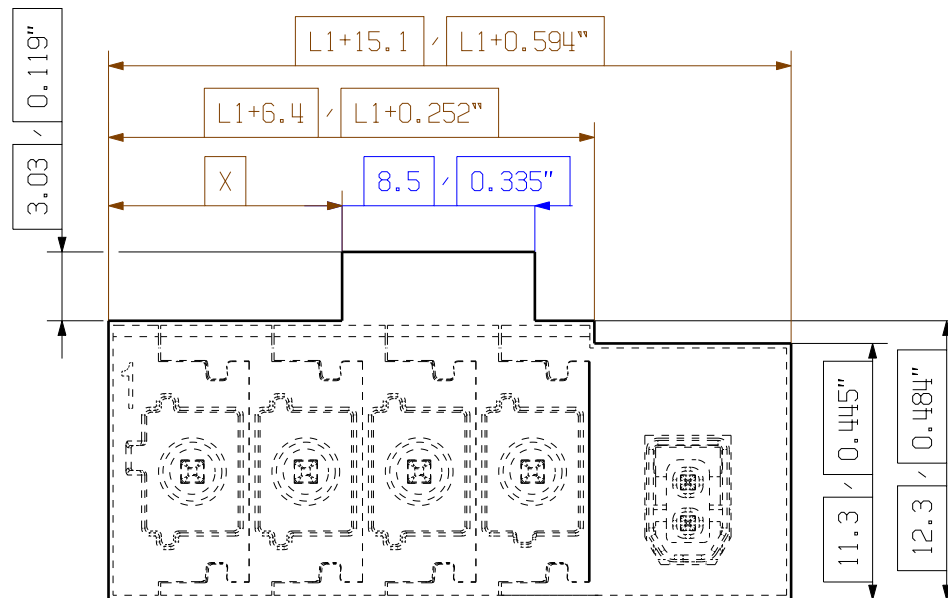
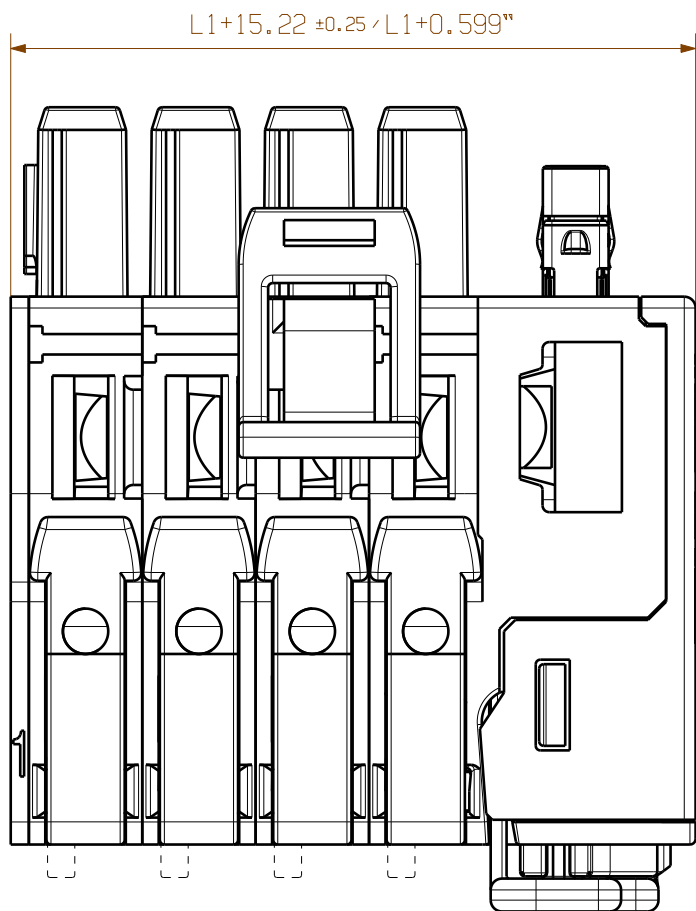
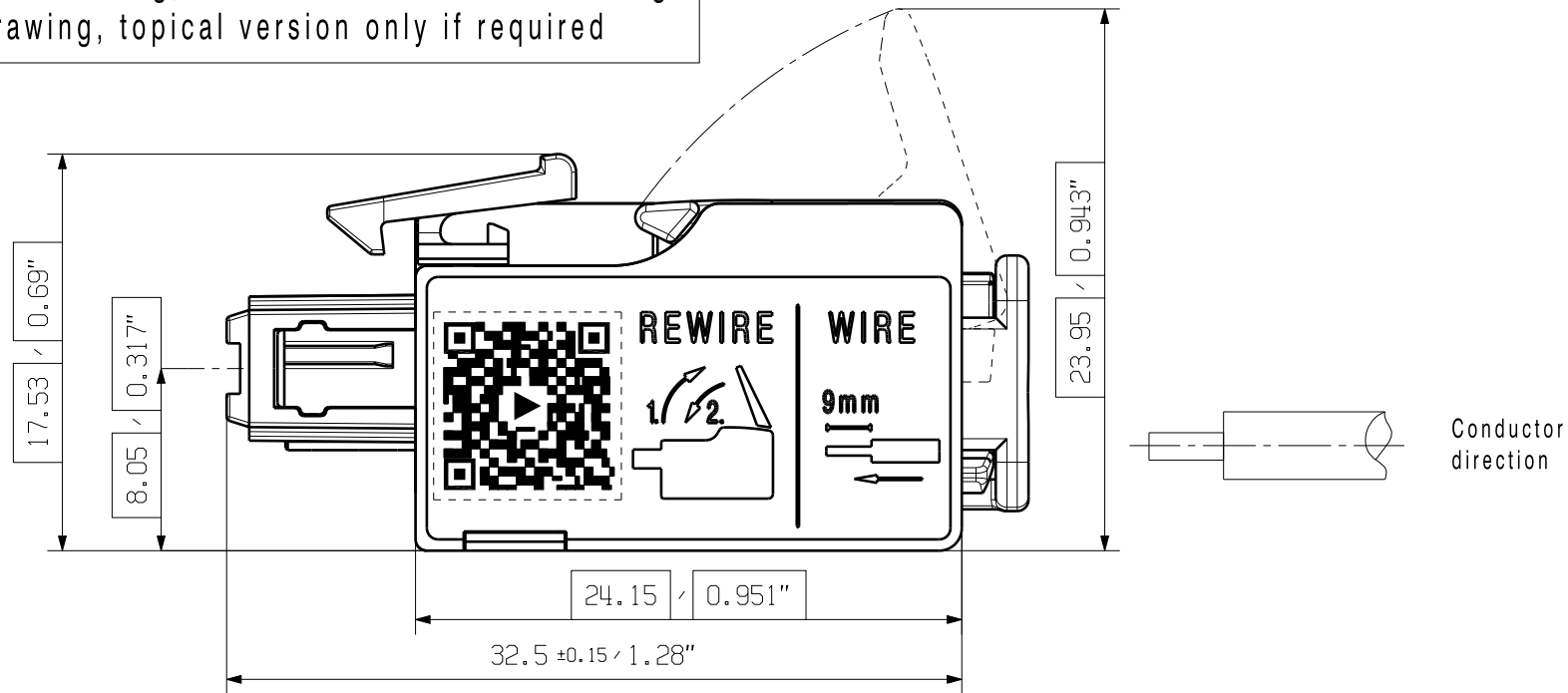
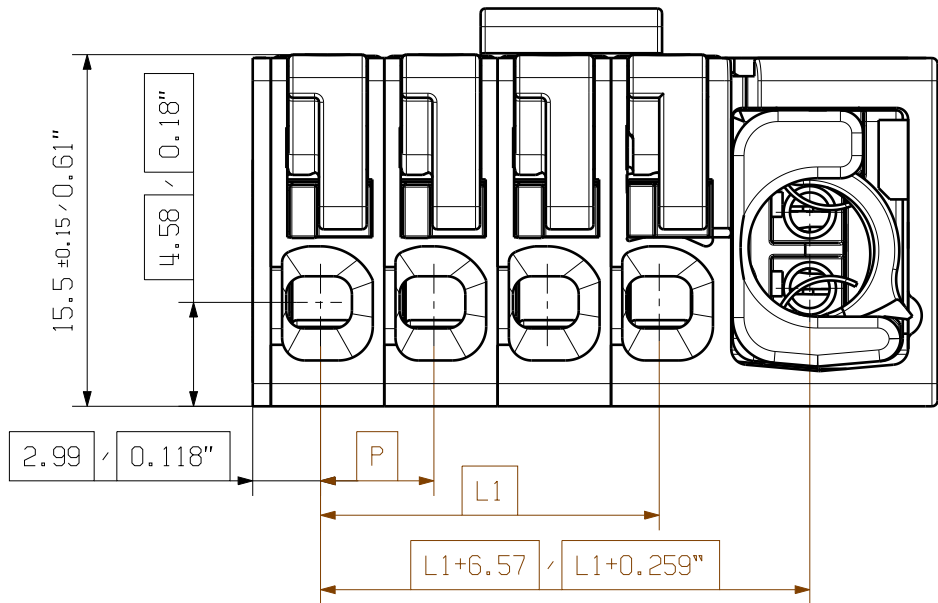
[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

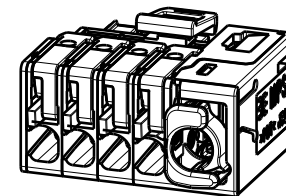




Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage  
General customer drawing, topical version only if required



Min. front plate cut-out



|         |         |           |        |          |
|---------|---------|-----------|--------|----------|
| 11      | 50.00   | 1.969     | 30.30  | 1.193    |
| 10      | 45.00   | 1.772     | 25.30  | 0.996    |
| 9       | 40.00   | 1.575     | 25.30  | 0.996    |
| 8       | 35.00   | 1.378     | 20.30  | 0.799    |
| 7       | 30.00   | 1.181     | 20.30  | 0.799    |
| 6       | 25.00   | 0.984     | 15.30  | 0.602    |
| 5       | 20.00   | 0.787     | 15.30  | 0.602    |
| 4       | 15.00   | 0.591     | 10.30  | 0.406    |
| 3       | 10.00   | 0.394     | 5.30   | 0.209    |
| 2       | 5.00    | 0.197     | 0.30   | 0.012    |
| n Poles | L1 [mm] | L1 [inch] | X [mm] | X [inch] |



P = Pitch (5mm/0.2")  
Further dim. & info. see data sheet

General Tolerances: .

Changes: EC00010800

Mat. No. (SAP) 2741790000

Drawings Assembly

Drawn Reger, Marc

Responsible Schmitz, Till

Approved Schmitz, Till

27.02.2024



**Weidmüller**

Tolerances ISO 8015

**76242**

Drawing no. 2  
Scale: 3:1 Sheet 4 / 4

**MPS 5/... D11 S...**  
FEMALE PLUG  
BUCHSENSTECKER

For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance is to be determined according to DIN IEC 326 part 3 very fine.

Weidmüller connectors are tested to the DIN VDE 0627 standard, and are valid for its field of application. Provided that the connectors are used to the intended purpose, all requirements with respect to the occurring of electrical, mechanical, thermic and corrosive stress will be satisfied.

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).