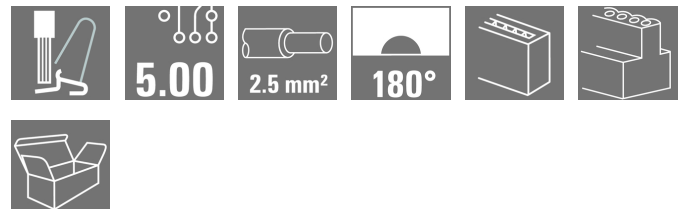


**MPS 5/04 D11 S TN B B****Weidmüller Interface GmbH & Co. KG**

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: 4, 180°, Box
Order No.	<a href="#">2741790000</a>
Type	MPS 5/04 D11 S TN B B
GTIN (EAN)	4064675055310
Qty.	60 pc(s).
Product data	IEC: 400 V / 26.8 A / 0.5 - 2.5 mm² UL: 300 V / 18.5 A / AWG 18 - AWG 14
Packaging	Box

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## Technical data

## Dimensions and weights

Depth	36 mm	Depth (inches)	1.417 inch
Height	15.5 mm	Height (inches)	0.61 inch
Width	30.2 mm	Width (inches)	1.189 inch
Net weight	26.965 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	4
L1 in mm	15 mm
L1 in inches	0.591 "
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	2.5 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 June 1, 2024 11:14:15 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)	4	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

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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>

**Downloads**

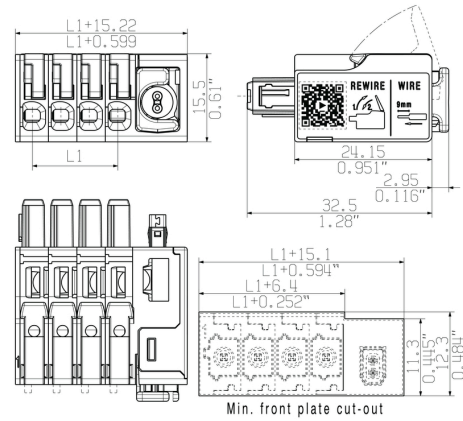
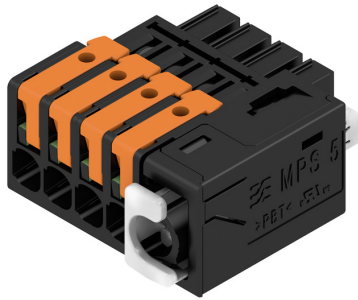
Approval/Certificate/Document of Conformity	<a href="#">Declaration of the Manufacturer</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Assembly instructions MPS 5 D11 and MPS 7S-5 D11 EN DE</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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## Drawings



## Product benefits

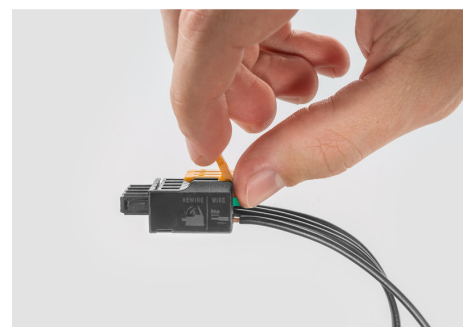


Fastest connection technology SNAP IN

## Product benefits



Acoustic and visual feedback



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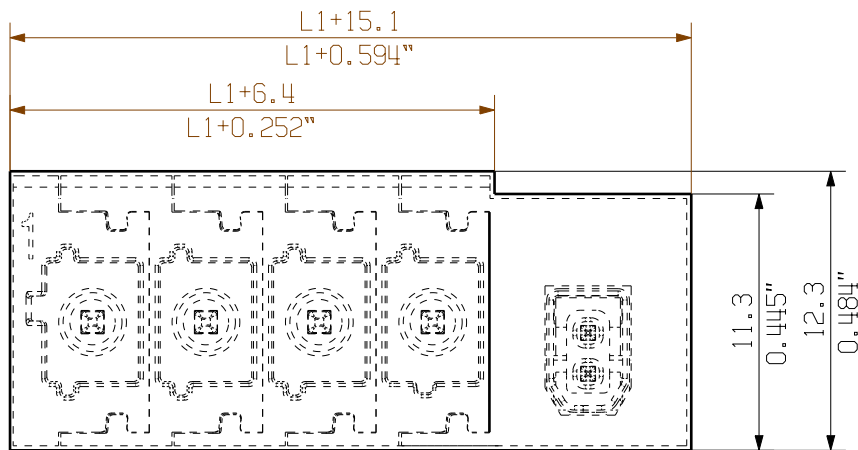
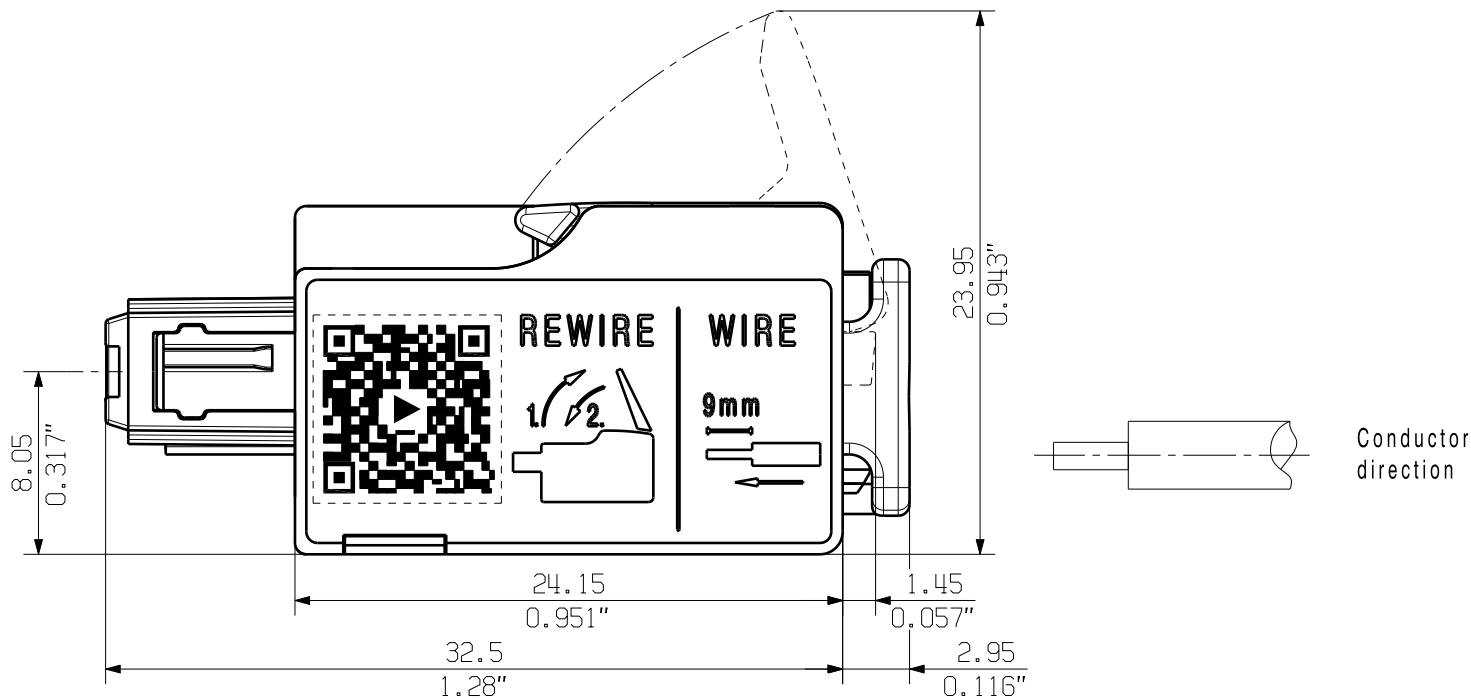
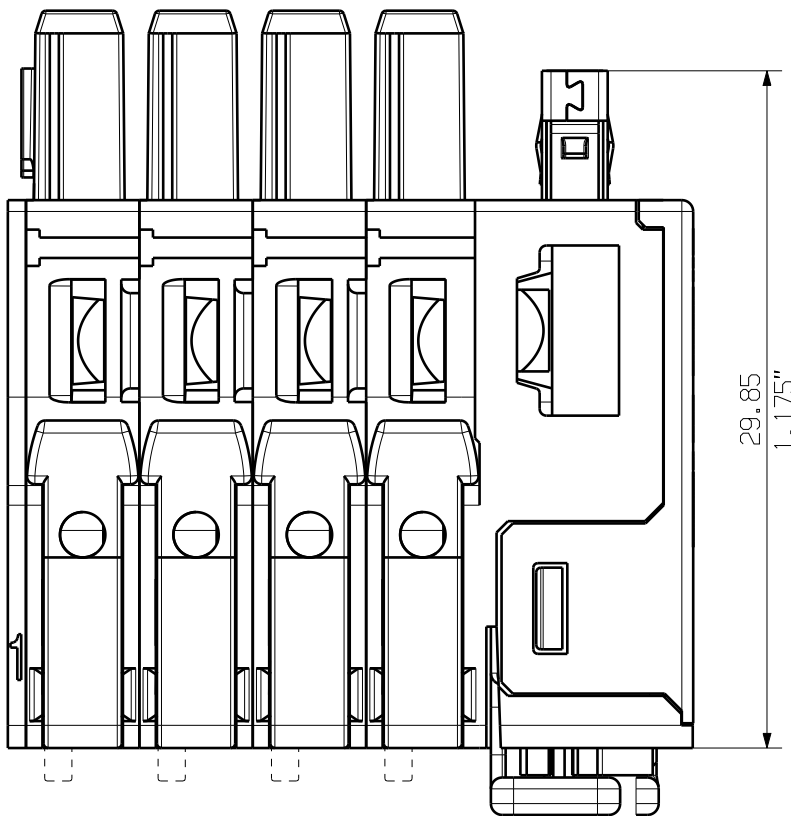
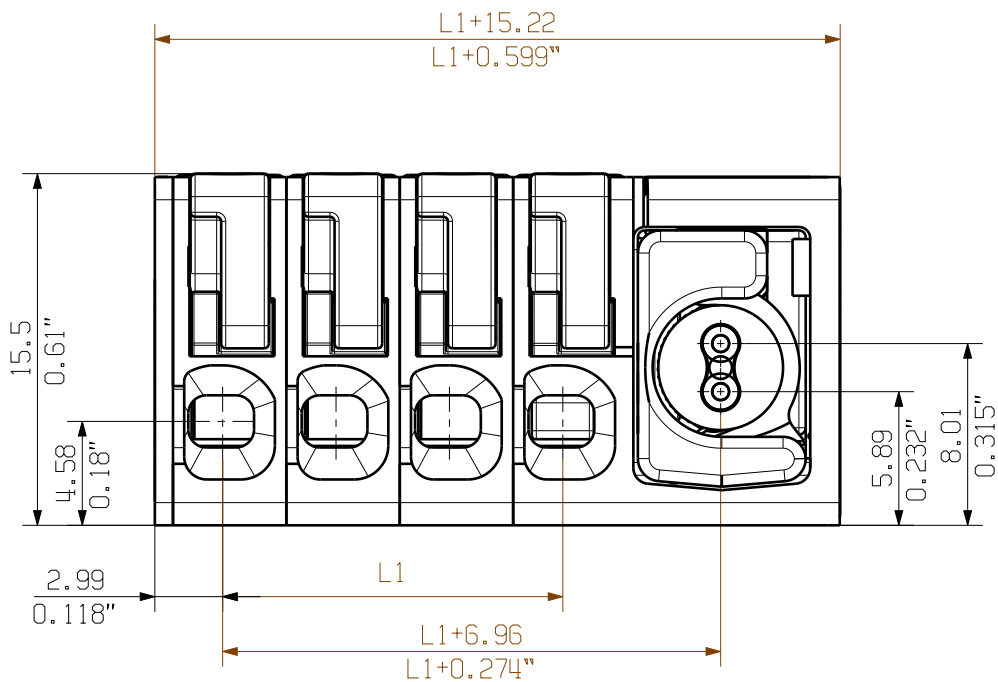
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance with VDE 0110. The current-carrying capacity and pitch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

Weidmueller 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.

Dimensions without tolerances are no check dimensions

The English version is binding

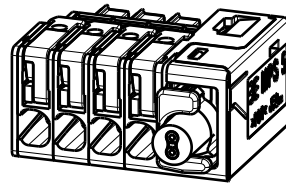
Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage  
General customer drawing, topical version only if required



Min. front plate cut-out




Further dim. & info. see data sheet

General tolerance:  
DIN ISO 2768-mK



M 1/1

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]

	EC00004980 P028441	Prim PLM Part No.: .		Prim ERP Part No.: .	
	First Issue Date 07.05.2020	Max. nos.	<div><b>Weidmüller</b> </div>		
		Modification			
			Date	Name	<div>MPS 5/... TN ... BUCHSENSTECKER FEMALE PLUG</div>
		Drawn	15.03.2021	Tauber-Reglin,	
		Responsible		Schmitz, Till	
Scale: 3/1      Size: A3		Approved	24.03.2021	Sapina, Svetos	
Drawings Assembly					Product file:
					<div><div>72561</div><div>Drawing no.</div><div>Sheet 7 of 8 sheets</div><div>Issue no. 5</div></div>