

MPS 5/10 S F5 TN B B

Weidmüller Interface GmbH & Co. KG

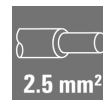
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



General ordering data

Order No.	2741750000
Type	MPS 5/10 S F5 TN B B
GTIN (EAN)	4064675055273
Qty.	36 Stück
Product data	IEC: 400 V / 26.8 A / 0.5 - 2.5 mm² UL: 300 V / 18.5 A / AWG 20 - AWG 12/7, AWG12/9
Packaging	Box

Erstellungs-Datum January 29, 2021 3:43:03 AM CET

Katalogstand 15.01.2021 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Depth	34 mm	Depth (inches)	1.339 inch
Height	17.5 mm	Height (inches)	0.689 inch
Net weight	24.34 g	Width	50.8 mm
Width (inches)	2 inch		

System Parameters

Type of connection	Field connection
Wire connection method	SNAP IN
Pitch in mm (P)	5 mm
Pitch in inches (P)	0.197 inch
Conductor outlet direction	180°
Number of poles	10
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
Volume resistance	≤5 mΩ
Stripping length	9 mm
Stripping length tolerance	min. 8 mm max. 10 mm
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	CuSn	Contact surface	tinned
Layer structure of plug contact	4...8 µm Sn	Storage temperature, min.	-25 °C
Storage temperature, max.	55 °C	Operating temperature, min.	-50 °C
Operating temperature, max.	100 °C		

Conductors suitable for connection

Clamping range, min.	0.5 mm²
Clamping range, max.	2.5 mm²
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 14
Solid, min. H05(07) V-U	0.5 mm²
Solid, max. H05(07) V-U	2.5 mm²
Flexible, min. H05(07) V-K	0.5 mm²
Flexible, max. H05(07) V-K	2.5 mm²
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm² min.	
w. wire end ferrule, DIN 46228 pt 1, 2.5 mm² max.	

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Outer diameter of insulation, max.	4 mm		
Clampable conductor	Cross-section for conductor connection	nominal	0.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0.5/16 OR
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.5/10
	Cross-section for conductor connection	nominal	0.75 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0.75/16 W
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H0.75/10
	Cross-section for conductor connection	nominal	1 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1.0/16 GE
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H1.0/10
	Cross-section for conductor connection	nominal	1.5 mm ²
	wire end ferrule	Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H1.5/16 R
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H1.5/10
	Cross-section for conductor connection	nominal	2.5 mm ²
	wire end ferrule	Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H2.5/15D BL
		Stripping length	nominal 10 mm
		Recommended wire-end ferrule	H2.5/10
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, max. number of poles (Tu=20°C)	19.7 A	Rated current, min. number of poles (Tu=20°C)	26.8 A
Rated current, max. number of poles (Tu=40°C)	16.9 A	Rated current, min. number of poles (Tu=40°C)	23.1 A
Rated voltage for surge voltage class / pollution degree III/2	320 V	Rated voltage for surge voltage class / pollution degree II/2	400 V
Rated impulse voltage for surge voltage class/ pollution degree II/2	4 kV	Rated voltage for surge voltage class / pollution degree III/3	250 V
Rated impulse voltage for surge voltage class/ contamination degree III/3	4 kV	Rated impulse voltage for surge voltage class/ pollution degree III/2	4 kV

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Technische Daten

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 300 V

Rated current (Use group B / UL 1059) 18.5 A

Wire cross-section, AWG, min. AWG 18

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group D / UL 1059) 300 V

Rated current (Use group D / UL 1059) 10 A

Wire cross-section, AWG, max. AWG 14

Classifications

ETIM 6.0

EC002638

ECLASS 9.0

27-44-03-09

ECLASS 10.0

27-44-03-09

ETIM 7.0

EC002638

ECLASS 9.1

27-44-03-09

ECLASS 11.0

27-46-02-02

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

- Rated current related to rated cross-section & min. No. of poles.
- P on drawing = pitch
- 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.
- Wire end ferrule without plastic collar to DIN 46228/1

Approvals

Approvals



UL File Number Search

E60693

Downloads

Engineering Data

[STEP](#)

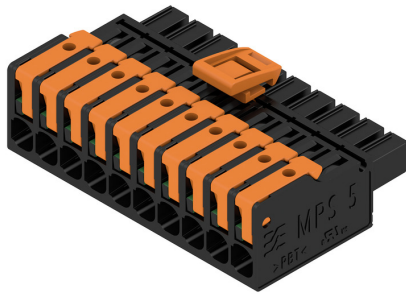
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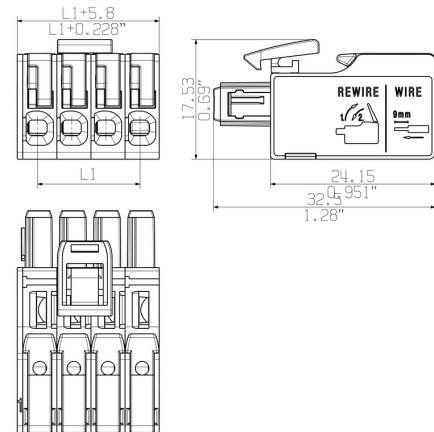
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Zeichnungen

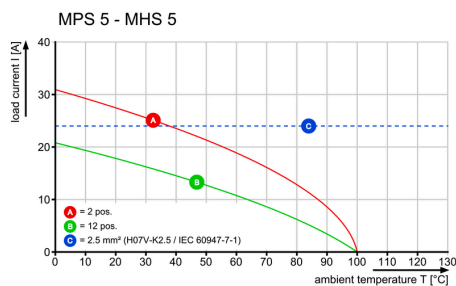
Product image



Dimensional drawing



Derating curve



Product benefits



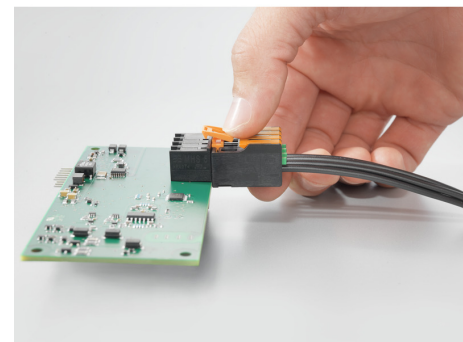
Fastest connection technology SNAP IN

Product benefits



Acoustic and visual feedback

Product benefits



Easy one-handed use of top-fixation

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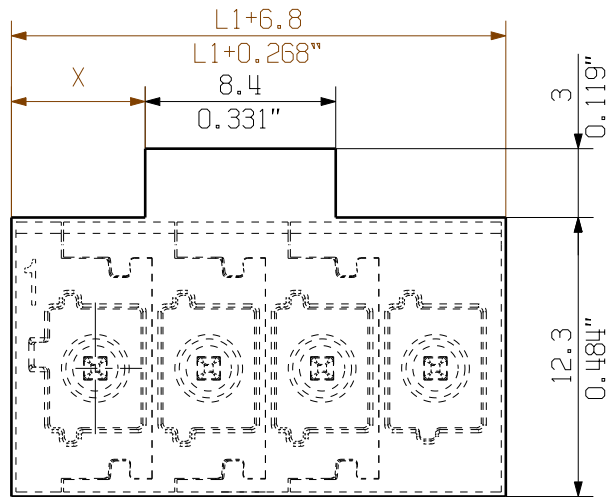
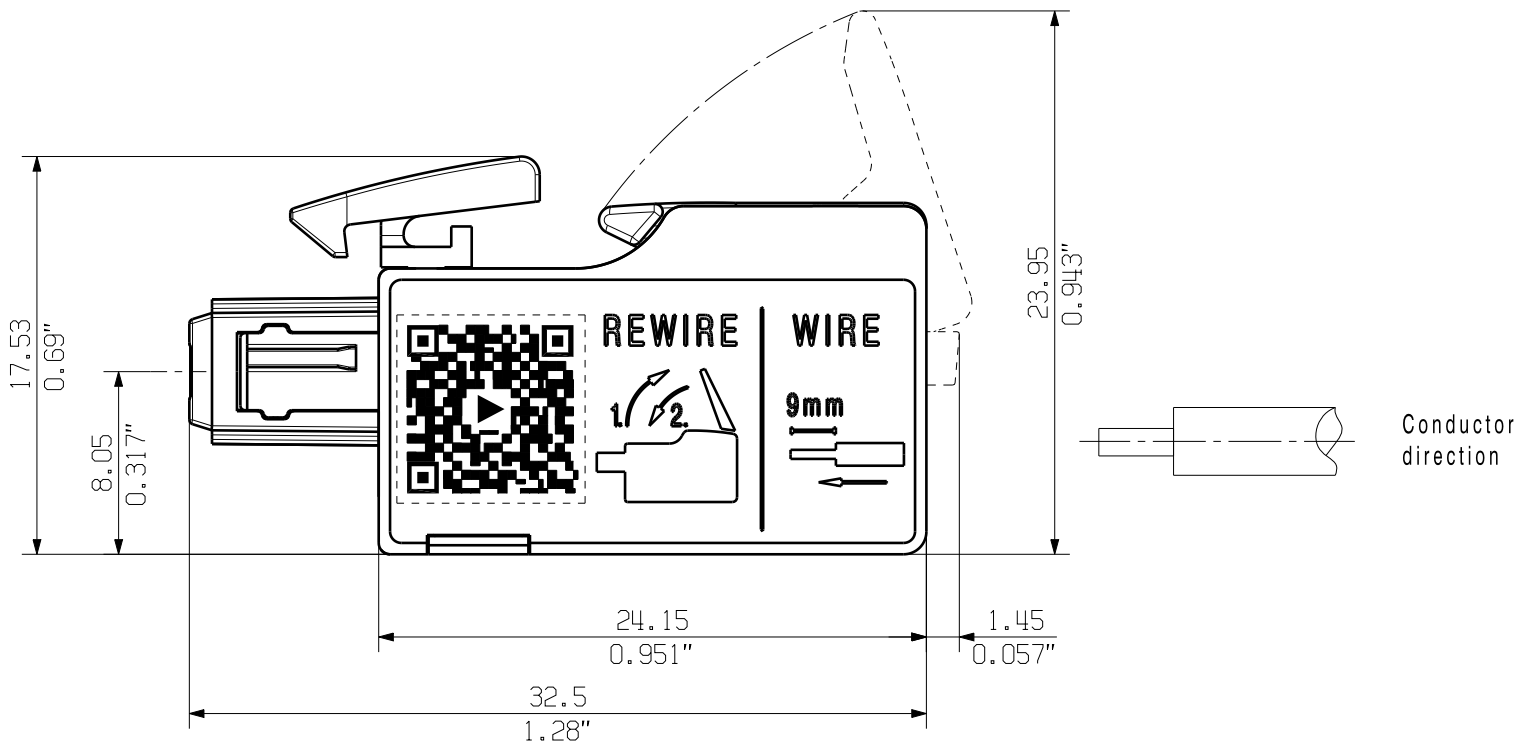
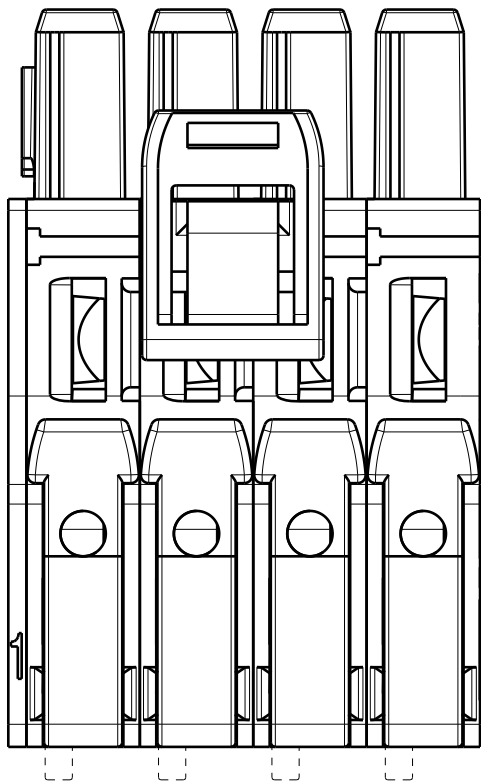
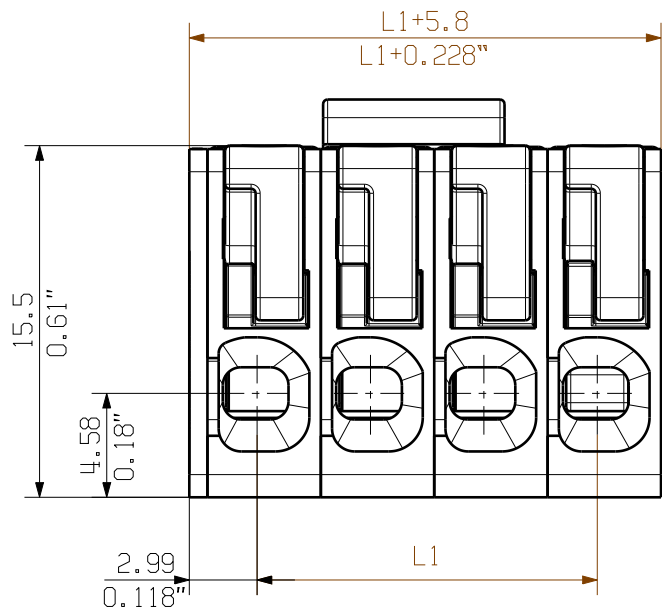
For the mounting of PCBs, it should be noted that the rated data given in the catalogue relates only to the connection elements. The necessary creepage and clearance paths must be observed in connection with the respective applicant in accordance to VDE 0110. The current-carrying capacity and pitch tolerance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

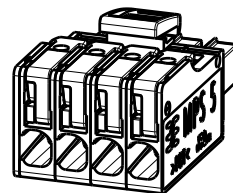
Allgemeinguetliche Kundenzeichnung, aktueller Stand nur auf Anfrage
General customer drawing, topical version only if required



Min. front plate cut-out

Further dim. & info. see data sheet

General tolerance:
DIN ISO 2768-mK



M 1/1

12	55.00	2.165	25.90	1.020
11	50.00	1.969	25.90	1.020
10	45.00	1.772	20.90	0.823
9	40.00	1.575	20.90	0.823
8	35.00	1.378	15.90	0.626
7	30.00	1.181	15.90	0.626
6	25.00	0.984	10.90	0.429
5	20.00	0.787	10.90	0.429
4	15.00	0.591	5.90	0.232
3	10.00	0.394	5.90	0.232
2	5.00	0.197	0.90	0.035
n Poles	L1 [mm]	L1 [inch]	X [mm]	X [inch]

	EC00004370 P028441	Prim PLM Part No.: .		Prim ERP Part No.: .	
	First Issue Date 07.05.2020	Max. nos.			72561
	Modification				
	Drawn	Date	Name	MPS 5/... TN ... BUCHSENSTECKER FEMALE PLUG	
	Responsible		Schmitz, Till		
Scale: ./.	Size: A3	Approved	15.01.2021		
Drawings Assembly				Product file: .	