

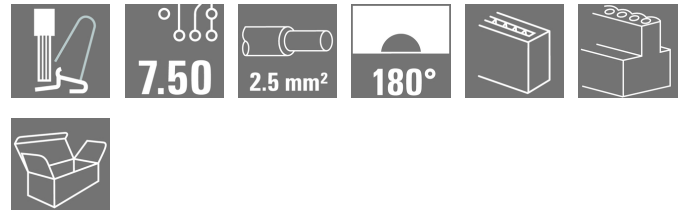
MPS 7S/02 S TN B B
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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): 7.50 mm, Number of poles: 2, Box
Order No.	8000078328
Type	MPS 7S/02 S TN B B
GTIN (EAN)	4064675622246
Qty.	138 pc(s).
Product data	IEC: 1000 V / 30.6 A / 0.5 - 4 mm² UL: 600 V / 18.5 A / AWG 20 - AWG 12
Packaging	Box

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Technical data

Dimensions and weights

Depth	35 mm	Depth (inches)	1.378 inch
Height	15.5 mm	Height (inches)	0.61 inch
Width	13.3 mm	Width (inches)	0.524 inch
Net weight	1.506 g		

System Parameters

Type of connection	Field connection	
Wire connection method	SNAP IN	
Pitch in mm (P)	7.5 mm	
Pitch in inches (P)	0.295 inch	
Conductor outlet direction	180°	
Number of poles	2	
L1 in mm	7.5 mm	
L1 in inches	0.295 inch	
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	
Stripping length	9 mm	
Stripping length tolerance	min.	8 mm
	max.	10 mm
Plugging cycles	25	
Plugging force/pole, max.	9 N	
Pulling force/pole, max.	8 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
Storage temperature, min.	-25 °C	Storage temperature, max.	55 °C
Operating temperature, min.	-50 °C	Operating temperature, max.	125 °C

Conductors suitable for connection

Clamping range, min.	0.5 mm ²
Clamping range, max.	4 mm ²
Wire connection cross section AWG, min.	AWG 20
Wire connection cross section AWG, max.	AWG 12
Solid, min. H05(07) V-U	0.5 mm ²
Solid, max. H05(07) V-U	2.5 mm ²
Flexible, min. H05(07) V-K	0.5 mm ²
Flexible, max. H05(07) V-K	4 mm ²
w. plastic collar ferrule, DIN 46228 pt 4, 0.5 mm ² min.	
w. plastic collar ferrule, DIN 46228 pt 4, 2.5 mm ² max.	
w. wire end ferrule, DIN 46228 pt 1, 0.5 mm ² min.	

Creation date October 27, 2022 8:44:35 AM CEST

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Technical data

w. wire end ferrule, DIN 46228 pt 1, 2.5 mm²
max.

Outer diameter of insulation, max. 4 mm

Clampable conductor	Cross-section for conductor connection wire end ferrule	nominal	0.5 mm ²
		Stripping length	nominal 12 mm
		Recommended wire-end ferrule	H0.5/16 OR
		Stripping length	nominal 10 mm
	Cross-section for conductor connection wire end ferrule	Recommended wire-end ferrule	H0.5/10
		nominal	0.75 mm ²
		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 wire end ferrule	nominal	1 mm ²
		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 wire end ferrule	nominal	1.5 mm ²
		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 wire end ferrule	nominal	2.5 mm ²
		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)

Rated data acc. to IEC

tested acc. to standard

IEC 60664-1, IEC 61984

Rated current, max. number of poles
(Tu=20°C) 31.3 ARated current, max. number of poles
(Tu=40°C) 27.9 ARated voltage for surge voltage class /
pollution degree III/2 1,000 VRated impulse voltage for surge voltage
class/ pollution degree II/2 6 kVRated current, min. number of poles
(Tu=20°C) 30.6 ARated current, min. number of poles
(Tu=40°C) 27.4 ARated voltage for surge voltage class /
pollution degree II/2 1,000 VRated voltage for surge voltage class /
pollution degree III/3 630 VRated impulse voltage for surge voltage
class/ pollution degree III/2 8 kV

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Technical data

Rated data acc. to UL 1059

Institute (cURus)



Certificate No. (cURus)

E60693

Rated voltage (Use group B / UL 1059) 600 V

Rated voltage (Use group D / UL 1059) 600 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

Reference to approval values

Specifications are maximum values, details - see approval certificate.

Rated voltage (Use group C / UL 1059) 600 V

Rated voltage (Use group F / UL 1059) 1,000 V

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

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

Wire cross-section, AWG, max. AWG 12

Classifications

ETIM 6.0

EC002638

ETIM 7.0

EC002638

ETIM 8.0

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

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
- Long term storage of the product with average temperature of 50 °C and average humidity 70%, 36 months

Approvals

Approvals



UL File Number Search

UL Website

Certificate No. (cURus)

E60693

Downloads

Engineering Data

[CAD data – STEP](#)

Catalogues

[Catalogues in PDF-format](#)

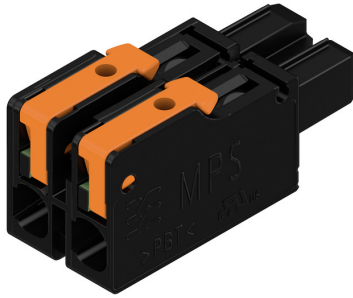
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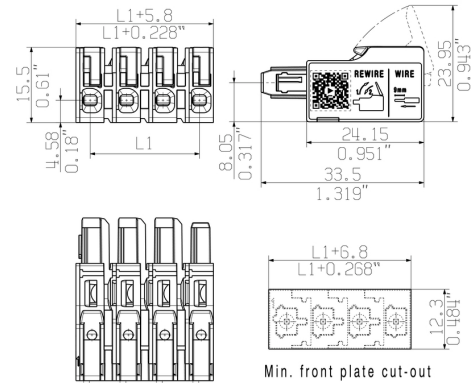
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Drawings

Product image



Dimensional drawing



Product benefits

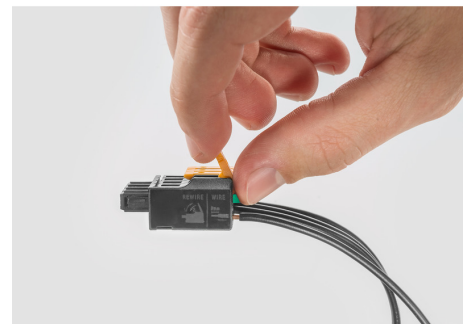


Fastest connection technology SNAP IN

Product benefits



Product benefits



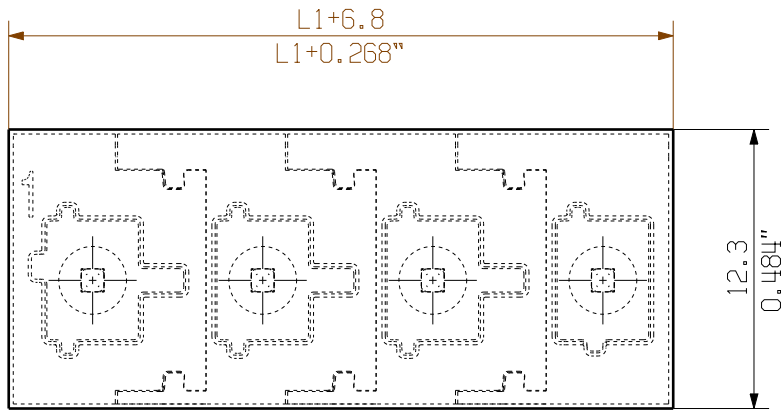
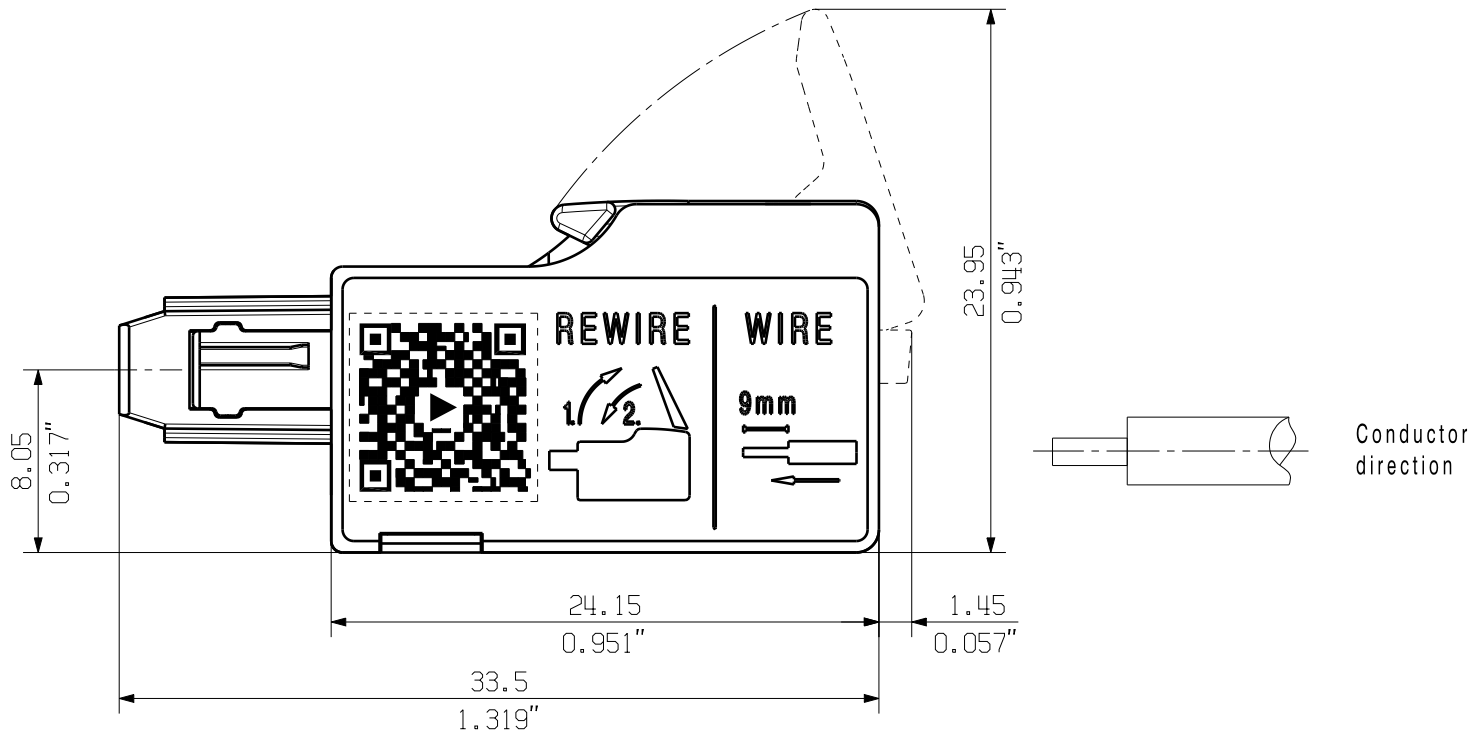
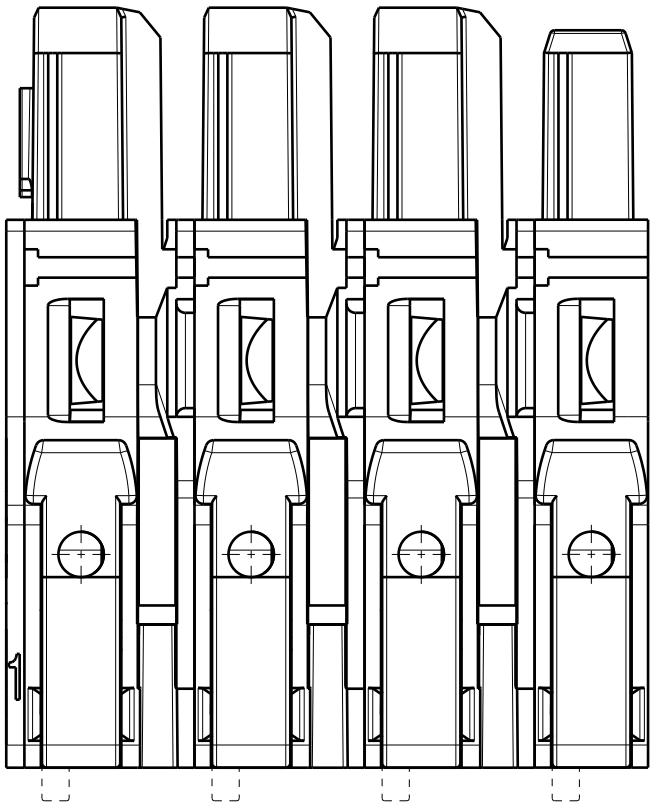
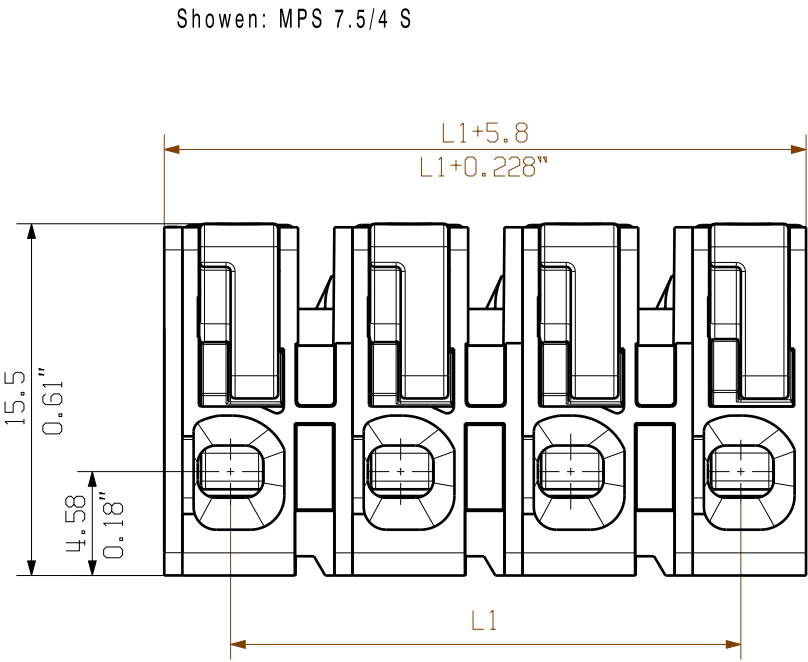
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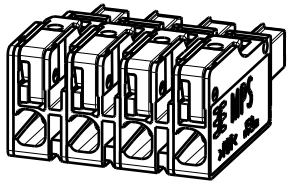
Dimensions without tolerances are no check dimensions

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

The English version is binding



Min. front plate cut-out



M 1/1

Further dim. & info. see data sheet

8	52.50	2.067
7	45.00	1.772
6	37.50	1.476
5	30.00	1.181
4	22.50	0.886
3	15.00	0.591
2	7.50	0.295
n Poles	L1 [mm]	L1 [inch]

		First Issue Date 17.08.2020		Max. nos. Modification		Prim PLM Part No.: .		Prim ERP Part No.: .	
		Scale: 3/1		Size: A3				73146	
Drawn		Date 17.08.2020		Name Tauber-Reglin,		Drawing no.		Issue no.	
Responsible		Approved		06.05.2021		Sapina, Svetos		Sheet 3 of 4 sheets	
Drawings Assembly						Product file: .			

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.

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