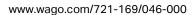
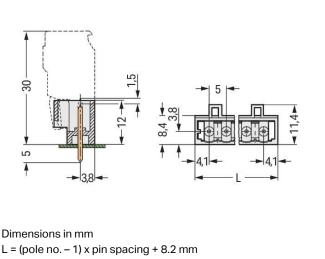
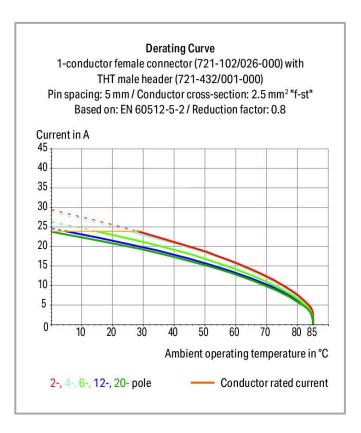
THT male header; 1.2 x 1.2 mm solder pin; straight; 100% protected against mismating; Pin spacing 5 mm; 9-pole; light gray











Subject to changes. Please also observe the further product documentation!

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www.wago.com/721-169/046-000



Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- 100 % protected against mismating
- With coding fingers

Data

Notes

Safety information	The MCS – MULTI CONNECTION SYSTEM includes connectors without breaking capacity in accordance with DIN EN 61984. When used as intended, these connectors must not be connected /disconnected when live or under load. When used as intended, these connectors must not be connected/disconnected when live or under load. The circuit design should ensure header pins, which can be touched, are not live when unmated.
Variants:	Other pole numbers 3.8 mm pin projection for male headers with straight solder pins Gold-plated or partially gold-plated contact surfaces Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/.

Electrical data

Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	16 A
Legend (ratings)	(III / 2) ≙ Overvoltage category III / Pollution degree 2

Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	15 A

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

Ratings per UL 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	15 A
Rated voltage CSA (Use Group D)	300 V
Rated current CSA (Use Group D)	10 A

Connection data

Total number of potentials	9
Number of connection types	1
Number of levels	1

Connection 1

Pole number	9

Physical data

Pin spacing	5 mm / 0.197 inches
Width	48.2 mm / 1.898 inches
Height	17 mm / 0.669 inches
Height from the surface	12 mm / 0.472 inches
Depth	11.4 mm / 0.449 inches
Solder pin length	5 mm
Solder pin dimensions	1.2 x 1.2 mm
Drilled hole diameter with tolerance	1.7 ^(+0.1) mm

Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

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Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Plugging without loss of pin spacing	No
Mating direction to the PCB	90 °
Locking of plug-in connection	none

PCB contact

PCB contact	ТНТ
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

Material data

Note (material data)

Information on material specifications can be found here

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Electrolytic copper (E _{Cu})
Contact plating	Tin
Fire load	0.053 MJ
Weight	3.4 g

Environmental requirements

Limit temperature range	-60 +100 °C
Processing temperature	-35 +60 °C

Commercial data

Product Group	3 (Multi Conn. System)
eCl@ss 10.0	27-44-04-02
eCl@ss 9.0	27-44-04-02
ETIM 8.0	EC002637
ETIM 7.0	EC002637

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	PL
GTIN	4045454841768
Customs tariff number	85366930000

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	UL	UL 1977	E45171
	Underwriters Laboratories Inc.		

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	name
RAILWAY	Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications

Logo	Approval	Additional Approval Text	name
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
VERITAS			

Counterpart



Item no.721-109/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 9-pole; 100% protected against mismating; 2,50 mm²; light gray

www.wago.com/721-109 /026-000

Cortificato

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Optional accessories

Marking accessories

Marking stri	р	
	Item no.: 210-833 Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white	www.wago.com/210-833
	Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white	www.wago.com/210-834
Coding		
Coding		
6	Item no.: 231-129 Coding key; snap-on type; light gray	www.wago.com/231-129

Downloads Documentation

Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	

CAD/CAE-Data

PCB Design

Symbol and Footprint via Ultra Librarian 721-169/046-000 URL Download CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics

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allow easy integration of the WAGO component into your development environment.

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URL

Download

- BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design
- Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 721-169/046-000

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC

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- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 721-169/046-000

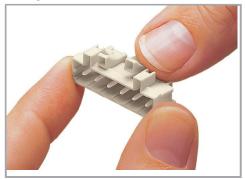
THT male header; $1.2 \times 1.2 \text{ mm}$ solder pin; straight; 100% protected against mismating; Pin spacing 5 mm; 9-pole; light gray

URL

Download

Installation Notes

Coding



Coding a male header – fitting coding key(s).

Product family

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MCS MIDI

Show all products from the family

 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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