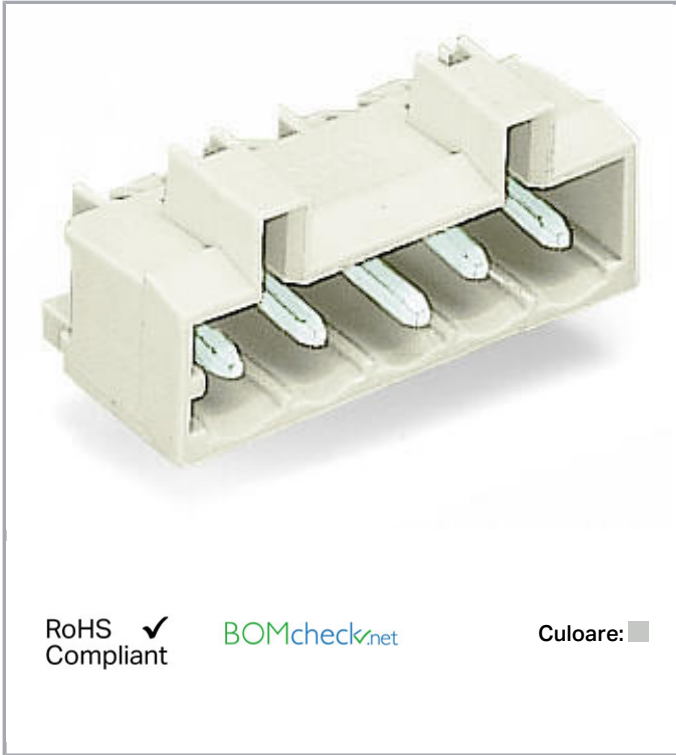


## Fișă tehnică | Număr articol: 721-450/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 20-pole; light gray

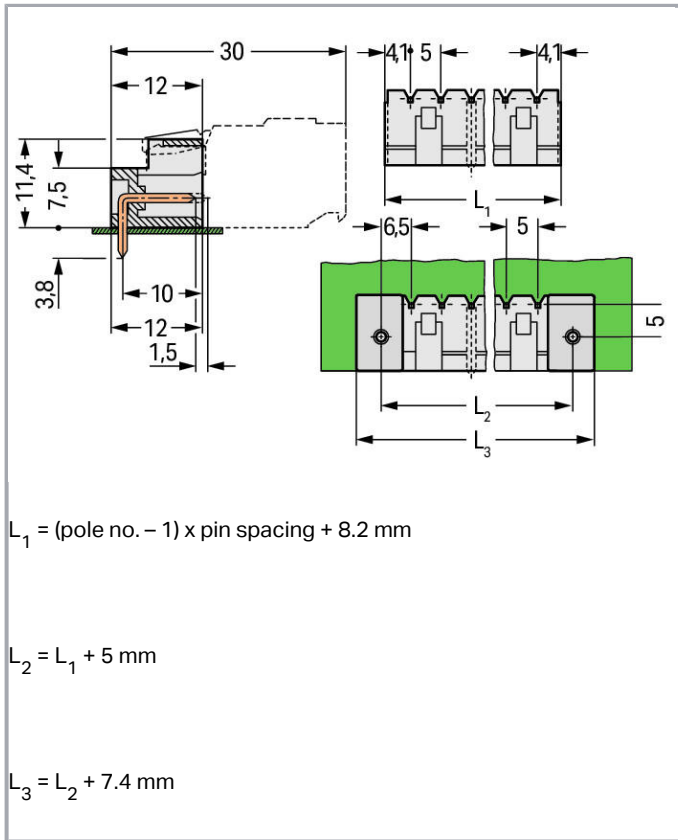
[www.wago.com/721-450/001-000](http://www.wago.com/721-450/001-000)



Supus modificărilor.

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Tel.: +40-(0)31 421 85 68 | Email: info-RO@wago.com

Aveți întrebări despre produsele noastre?  
Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.



## Descriere articol

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 100 % protected against mismatching
- With coding fingers

### Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

## Date

### Electrical data

### Ratings per IEC/EN 60664-1

Ratings per

IEC/EN 60664-1

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Nominal voltage (III/3)	320 V
Rated surge voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated surge voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	12 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

### Approvals per UL 1059

Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A
Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A
Approvals per	UL 1059

### Approvals per UL 1977

Rated voltage UL 1977	600 V
Rated current UL 1977	10 A

### Approvals per CSA

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

### Connection data

Pole No.	20
Total number of potentials	20
Number of connection types	1
Number of levels	1

### Geometrical Data

Pin spacing	5 mm / 0.197 inch
Width	103.2 mm / 4.063 inch
Height	15.2 mm / 0.598 inch

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Height from the surface	11.4 mm / 0.449 inch
Depth	12 mm / 0.472 inch
Solder pin length	3,8 mm
Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1,4 <sup>(+0.1)</sup> mm

### Plug connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCBs
Mismating protection	Yes
Mating direction to the PCB	0°

### PCB contact

PCB contact	THT
Solder pin arrangement	over the entire male connector, in line
Number of solder pins per potential	1

### Material Data

Color	light gray
Material group	I
Insulation material	Polyamide 66 (PA 66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0,116 MJ
Weight	6,4 g

### Environmental Requirements

Limit temperature range	-60 ... +100 °C
-------------------------	-----------------

### Commercial data

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	PL
GTIN	4044918869843

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Aveți întrebări despre produsele noastre?  
 Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.

Customs tariff number



85366990990

## Aprobări / certificate



### Country specific Approvals

Emblemă	Aprobare	Text de aprobare suplimentar	Nume certificat
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	2190761.01

### Ship Approvals

Emblemă	Aprobare	Text de aprobare suplimentar	Nume certificat
	<b>ABS</b> American Bureau of Shipping	-	19- HG1869876- PDA
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

### UL-Approvals

Emblemă	Aprobare	Text de aprobare suplimentar	Nume certificat
	<b>UL</b> Underwriters Laboratories Inc.	UL 1059	20190731- E45172
	<b>UR</b> UL International Germany GmbH	UL 1977	E45171

### Counterpart



Nr. articol 2721-120/026-000

[www.wago.com/2721-](http://www.wago.com/2721-)

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Aveți întrebări despre produsele noastre?  
 Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.

1-conductor female plug; 100% protected against mismatching; push-button; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray 120/026-000



**Nr. articol**721-120/026-000

1-conductor female plug; 100% protected against mismatching; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/721-120/026-000](http://www.wago.com/721-120/026-000)



**Nr. articol**2721-120/037-000

1-conductor female plug; 100% protected against mismatching; push-button; Locking lever; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/2721-120/037-000](http://www.wago.com/2721-120/037-000)



**Nr. articol**721-120/037-000

1-conductor female plug; 100% protected against mismatching; Locking lever; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/721-120/037-000](http://www.wago.com/721-120/037-000)



**Nr. articol**722-220/026-000

1-conductor female plug; angled; 100% protected against mismatching; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/722-220/026-000](http://www.wago.com/722-220/026-000)



**Nr. articol**2721-120/031-000

1-conductor female plug; 100% protected against mismatching; push-button; clamping collar; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/2721-120/031-000](http://www.wago.com/2721-120/031-000)



**Nr. articol**721-120/027-000

1-conductor female plug; 100% protected against mismatching; clamping collar; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/721-120/027-000](http://www.wago.com/721-120/027-000)



**Nr. articol**721-120/031-000

1-conductor female plug; 100% protected against mismatching; clamping collar; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 20-pole; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/721-120/031-000](http://www.wago.com/721-120/031-000)



**Nr. articol**722-120/026-000

1-conductor female plug; angled; 100% protected against mismatching; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/722-120/026-000](http://www.wago.com/722-120/026-000)

## Produse compatibile

### Marking accessories



**Nr. articol:** 210-833

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)



**Nr. articol:** 210-834

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)

### Coding




**Nr. articol:** 231-129

Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)

Supus modificărilor.

## Female plug

	<b>Nr. articol: 721-320/008-000</b> 1-conductor female plug; angled; 100% protected against mismatching; Snap-in mounting feet; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 20-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-320/008-000">www.wago.com/721-320/008-000</a>
	<b>Nr. articol: 721-320/031-000</b> 1-conductor female plug; angled; 100% protected against mismatching; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 20-pole; 2,50 mm <sup>2</sup> ; light gray	<a href="http://www.wago.com/721-320/031-000">www.wago.com/721-320/031-000</a>
	<b>Nr. articol: 722-150</b> THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-150">www.wago.com/722-150</a>
	<b>Nr. articol: 722-150/039-000</b> THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-150/039-000">www.wago.com/722-150/039-000</a>
	<b>Nr. articol: 722-150/047-000</b> THT female header; 0.6 x 1.0 mm solder pin; straight; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-150/047-000">www.wago.com/722-150/047-000</a>
	<b>Nr. articol: 722-250</b> THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-250">www.wago.com/722-250</a>
	<b>Nr. articol: 722-250/031-000</b> THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; clamping collar; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-250/031-000">www.wago.com/722-250/031-000</a>
	<b>Nr. articol: 722-250/039-000</b> THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Locking lever; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-250/039-000">www.wago.com/722-250/039-000</a>
	<b>Nr. articol: 722-250/047-000</b> THT female header; 0.6 x 1.0 mm solder pin; angled; 100% protected against mismatching; Spacer flange; Pin spacing 5 mm; 20-pole; light gray	<a href="http://www.wago.com/722-250/047-000">www.wago.com/722-250/047-000</a>

## Descărcări

## Documentation

## Additional Information

Technical explanations

Apr 3, 2019

pdf  
3,6 MB

Descărcare

## CAD/CAE-Data

## CAD data

2D/3D Models 721-450/001-000

URL

Descărcare

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## CAE data

EPLAN Data Portal 721-450/001-000

[URL](#)

[Descărcare](#)

## PCB Design

Symbol and Footprint 721-450/001-000

[URL](#)

[Descărcare](#)

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:

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

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

## Installation Notes

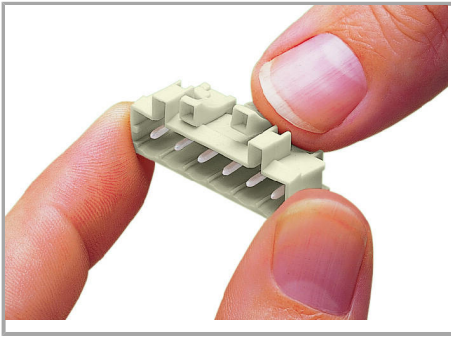
### Coding

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

## Familie de produse

*MCS* MIDI

Afișare globală produse din familie.

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