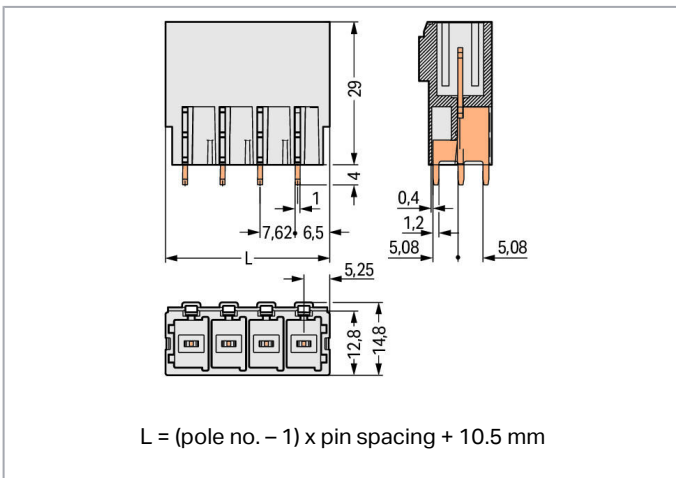
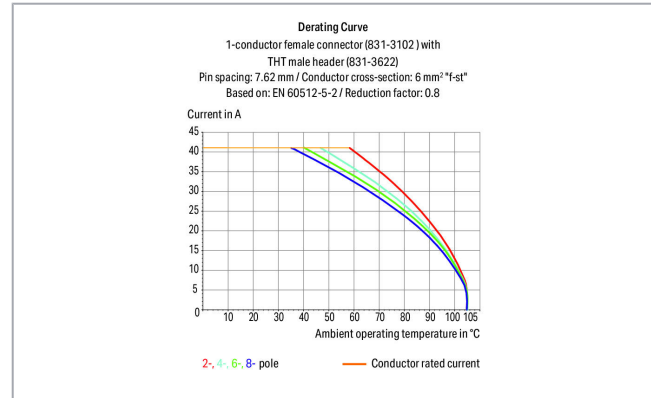


## Data sheet | Item number: 831-3609

THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismatching; Pin spacing 7.62 mm; 9-pole; light gray



[www.wago.com/831-3609](http://www.wago.com/831-3609)



### Item description

- Male headers may be mounted horizontally or vertically via straight or angled solder pins
- Three solder pins per pole provide high electrical and mechanical stability
- 100 % protected against mismatching
- Coding via coding fingers

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

WAGO Kontakttechnik GmbH & Co. KG  
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**Safety information 1:**

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

**Data****Electrical data****Ratings per IEC/EN**

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	500 V
Rated surge voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated surge voltage (III/2)	6 kV
Nominal voltage (II/2)	1000 V
Rated surge voltage (II/2)	6 kV
Rated current	41 A
Legend (ratings)	(III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2

**Ratings per UL**

Approvals per	UL 1059
Rated voltage UL (Use Group C)	300 V
Rated current UL (Use Group C)	42 A
Rated voltage UL (Use Group D)	600 V
Rated current UL (Use Group D)	5 A

**Ratings per CSA**

Approvals per	CSA
Rated voltage CSA (Use Group C)	300 V
Rated current CSA (Use Group C)	41 A
Rated voltage CSA (Use Group D)	600 V
Rated current CSA (Use Group D)	5 A

**Connection data**

Pole No.	9
Total number of potentials	9

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



Number of connection types	1
Number of levels	1

### Physical data

Pin spacing	7.62 mm / 0.3 inch
Width	71.46 mm / 2.813 inch
Height	33 mm / 1.299 inch
Height from the surface	29 mm / 1.142 inch
Depth	14.8 mm / 0.583 inch
Solder pin length	4 mm
Solder pin dimensions	1 x 1.2 mm
Drilled hole diameter with tolerance	1.7 <sup>(+0.1)</sup> mm

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	90°

### PCB contact

PCB Contact	THT
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	3

### Material data

Color	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Weight	24.8 g

### Environmental requirements

Limit temperature range	-60 ... +105 °C
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## Commercial data


Packaging type	BOX
Country of origin	PL
GTIN	4055143589437
Customs tariff number	85366990990

## Approvals / Certificates

### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71-116057

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>LR</b> Lloyds Register	IEC 61984	96/20035 (E5)

## Counterpart



### Item no.831-3109

1-conductor female plug; 100% protected against mismatching; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 9-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3109](http://www.wago.com/831-3109)



### Item no.831-3109/037-000

1-conductor female plug; 100% protected against mismatching; Locking lever; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 9-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3109/037-000](http://www.wago.com/831-3109/037-000)



### Item no.831-3109/136-000

1-conductor female plug; 100% protected against mismatching; Gripping plate; 10 mm<sup>2</sup>; Pin spacing 7.62 mm; 9-pole; 10,00 mm<sup>2</sup>; light gray

[www.wago.com/831-3109/136-000](http://www.wago.com/831-3109/136-000)

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

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## Compatible products

### Coding



Item no.: 831-500  
Coding pin carrier with six coding pins; orange

[www.wago.com/831-500](http://www.wago.com/831-500)

## Downloads

### Documentation

#### Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 831-3609	URL	Download
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### PCB Design

Symbol and Footprint 831-3609	URL	Download
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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

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

- 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

#### CAE data

ZUKEN Portal 831-3609

[URL](#)

[Download](#)

## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 831-3609

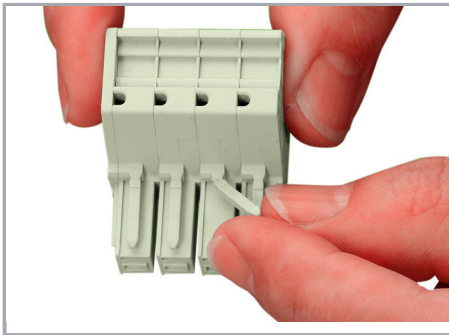
[URL](#)

[Download](#)

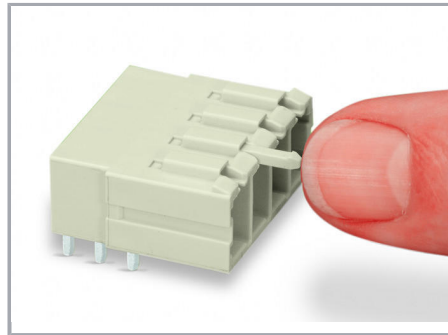
THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismatching; Pin spacing 7.62 mm; 9-pole; light gray

## Installation Notes

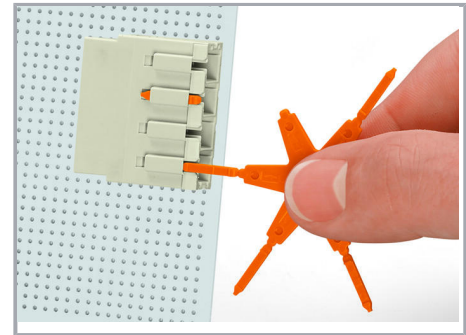
### Coding



Break or cut off coding pin from female connector.



Insert coding pin into male header (break first) until it engages.



Coding a THT male header by inserting a coding pin.

## Product family

*MCS* MAXI 6

[Show all products from the family](#)

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