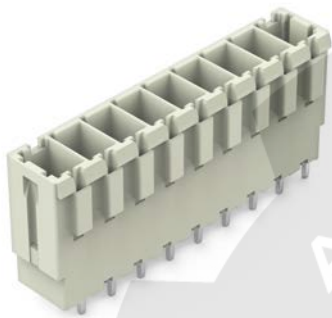


Data sheet | Item number: 831-3609

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



Color: —

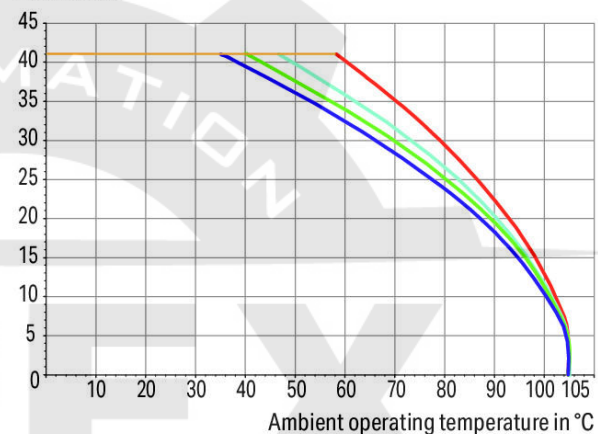
Derating Curve

1-conductor female connector (831-3102) with
THT male header (831-3622)

Pin spacing: 7.62 mm / Conductor cross-section: 6 mm² "f-st"

Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



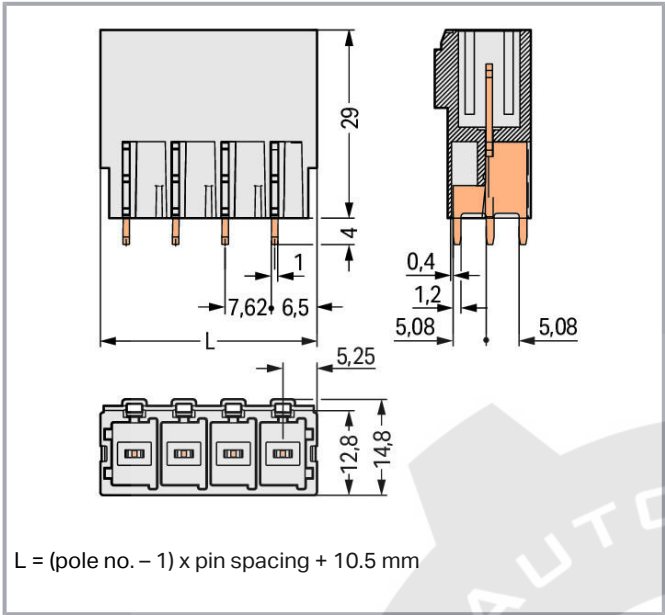
2-, 4-, 6-, 8- pole

— Conductor rated current

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

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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

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

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated 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

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

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Rated surge voltage (II/2)	6 kV
Rated current	41 A
Legend (ratings)	(III / 2) $\triangleq$ Overvoltage category III / Pollution degree 2

UL Approvals

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

CSA Approvals

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
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 ^(+0.1) mm

Plug-in connection

Contact type (pluggable connector)	Male header
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Connector (connection type)	for PCB
Mismating protection	Yes
Mating direction to the PCB	90°
Locking of plug-in connection	Without

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 _{Cu})
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
	CB DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 116057

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Ship Approvals

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

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 1059	E45172

Counterpart

**Item no.831-3109**

1-conductor female connector; 100% protected against mismating; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray www.wago.com/831-3109

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

1-conductor female connector; 100% protected against mismating; Locking lever; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray www.wago.com/831-3109/037-000

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

1-conductor female connector; 100% protected against mismating; Gripping plate; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray www.wago.com/831-3109/136-000

**Item no.831-1109**

1-conductor female connector; 100% protected against mismating; lever; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray www.wago.com/831-1109

**Item no.831-1109/038-000**

1-conductor female connector; 100% protected against mismating; lever; Locking lever; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray www.wago.com/831-1109/038-000

Item no.831-1109/037-000

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



1-conductor female connector; 100% protected against mismatching; lever; Locking lever; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray

www.wago.com/831-1109/037-000



Item no.831-1109/322-000

1-conductor female connector; 100% protected against mismatching; lever; center locking; 10 mm²; Pin spacing 7.62 mm; 9-pole; 10,00 mm²; light gray

www.wago.com/831-1109/322-000

Optional accessories

Coding

★	Item no.: 831-500 Coding pin carrier with six coding pins; orange	www.wago.com/831-500
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Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 2.0 MB	Download
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CAD files

CAD data

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

Symbol and Footprint 831-3609

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

URL Download

Supported formats:

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

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- 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

CAE data

ZUKEN Portal 831-3609	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 831-3609	URL	Download
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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

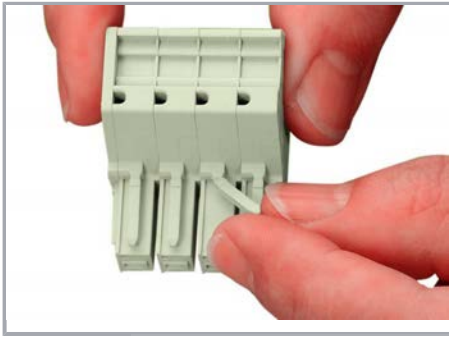
Installation Notes

Coding

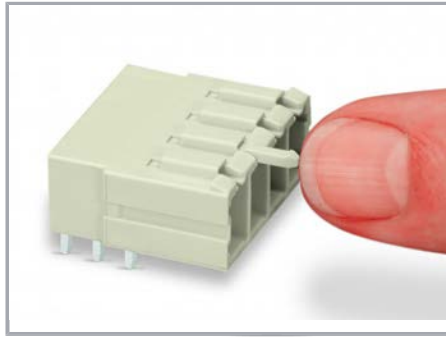
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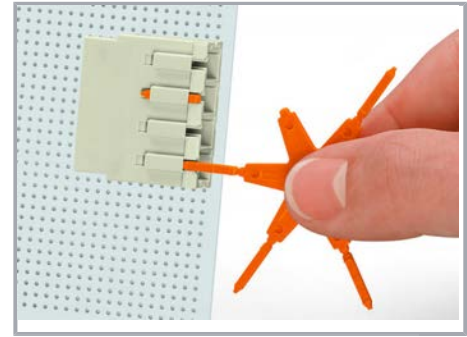
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Break or cut off coding pin from female connector.



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



Coding a THT male header by inserting a coding pin.

Product family

<i>MCS</i> MAXI 6

[Show all products from the family](#)

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