

**Data sheet | Item number: 831-3604**

THT male header; 1.0 x 1.2 mm solder pin; straight; 100% protected against mismatching; Pin spacing 7.62 mm; 4-pole; light gray

[www.wago.com/831-3604](http://www.wago.com/831-3604)



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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



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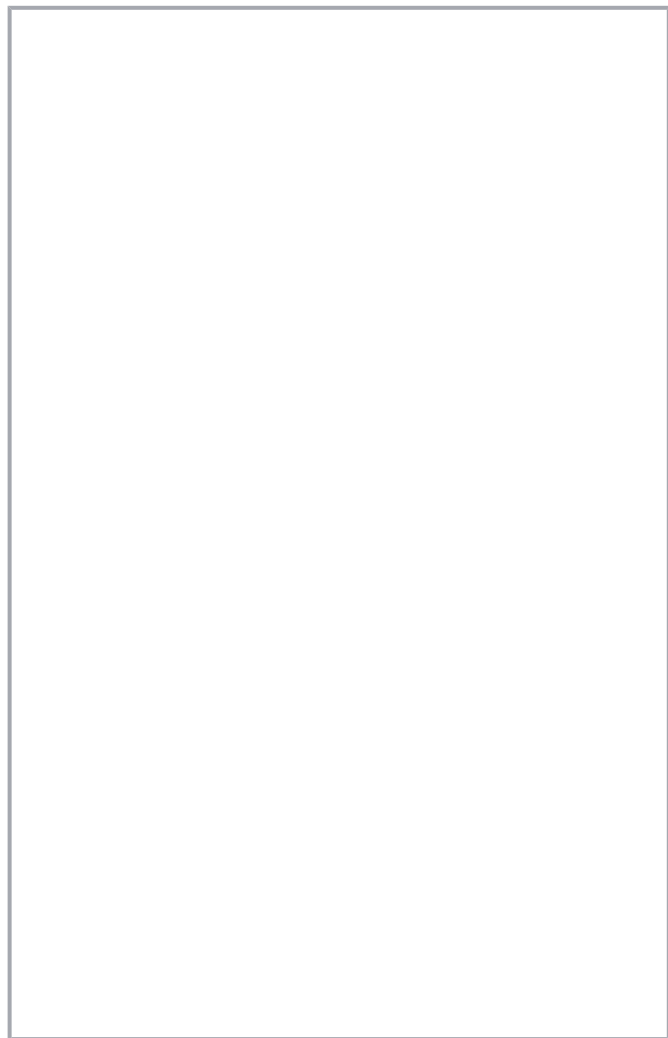


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### Item description

- 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

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## 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  
Protection against PCB mounting errors  
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)	500 V
Rated impulse voltage (III/3)	6 kV
Rated voltage (III/2)	630 V
Rated impulse 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) $\triangleq$ 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

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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

Total number of potentials	4
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	4
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### Physical data

Pin spacing	7.62 mm / 0.3 inches
Width	33.36 mm / 1.313 inches
Height	33 mm / 1.299 inches
Height from the surface	29 mm / 1.142 inches
Depth	14.8 mm / 0.583 inches
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

### Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

### 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

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## PCB contact

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

## 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	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Weight	11.5 g

## Environmental requirements

Limit temperature range	-60 ... +105 °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
PU (SPU)	24 pcs
Packaging type	box
Country of origin	PL
GTIN	4045454002121
Customs tariff number	85366930000

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-61360 /M1
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71- 116057
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	<b>Railway</b> WAGO GmbH & Co. KG	-	Railway Ready

### Approvals for marine applications

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

## Counterpart

<b>Item no.831-3104</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; 10,00 mm²; light gray	<a href="http://www.wago.com/831-3104">www.wago.com/831-3104</a>
<b>Item no.831-3104/000-9037</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; direct marking; 10,00 mm²; light gray	<a href="http://www.wago.com/831-3104/000-9037">www.wago.com/831-3104/000-9037</a>
<b>Item no.831-3104/037-000</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray	<a href="http://www.wago.com/831-3104/037-000">www.wago.com/831-3104/037-000</a>
<b>Item no.831-3104/037-9037</b> 1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; direct marking; 10,00 mm²; light gray	<a href="http://www.wago.com/831-3104/037-9037">www.wago.com/831-3104/037-9037</a>
<b>Item no.831-3104/135-000</b>	<a href="http://www.wago.com/831-">www.wago.com/831-</a>

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1-conductor female connector; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Gripping plate; 10,00 mm²; light gray	3104/135-000
<b>Item no.831-1104</b> 1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; 10,00 mm²; light gray	<a href="http://www.wago.com/831-1104">www.wago.com/831-1104</a>
<b>Item no.831-1104/037-000</b> 1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray	<a href="http://www.wago.com/831-1104/037-000">www.wago.com/831-1104/037-000</a>
<b>Item no.831-1104/038-000</b> 1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 10,00 mm²; light gray	<a href="http://www.wago.com/831-1104/038-000">www.wago.com/831-1104/038-000</a>
<b>Item no.831-1104/320-000</b> 1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Centered locking levers; 10,00 mm²; light gray	<a href="http://www.wago.com/831-1104/320-000">www.wago.com/831-1104/320-000</a>
<b>Item no.831-1104/322-000</b> 1-conductor female connector; lever; Push-in CAGE CLAMP®; 10 mm²; Pin spacing 7.62 mm; 4-pole; 100% protected against mismatching; Centered locking levers; 10,00 mm²; light gray	<a href="http://www.wago.com/831-1104/322-000">www.wago.com/831-1104/322-000</a>

## Optional accessories

### Coding

#### Coding

<b>Item no.: 831-500</b> Coding pin carrier with six coding pins; orange	<a href="http://www.wago.com/831-500">www.wago.com/831-500</a>
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## Downloads

### Documentation

#### Additional Information

2019 年4月3日	pdf 2.0 MB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 831-3604	URL	Download
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### PCB Design

Symbol and Footprint 831-3604	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:

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- 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

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#### CAE data

ZUKEN Portal 831-3604	<a href="#">URL</a>	<a href="#">Download</a>
EPLAN Data Portal 831-3604	<a href="#">URL</a>	<a href="#">Download</a>

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 831-3604	<a href="#">URL</a>	<a href="#">Download</a>
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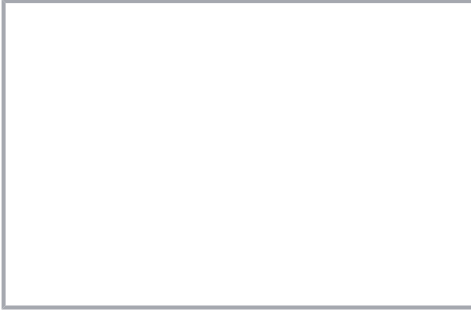
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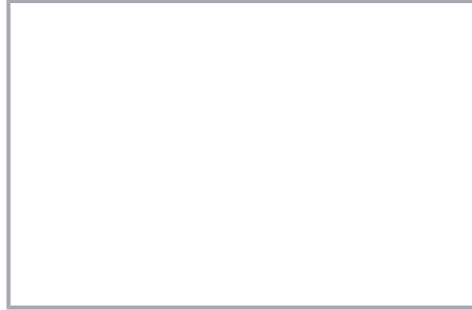


## Installation Notes

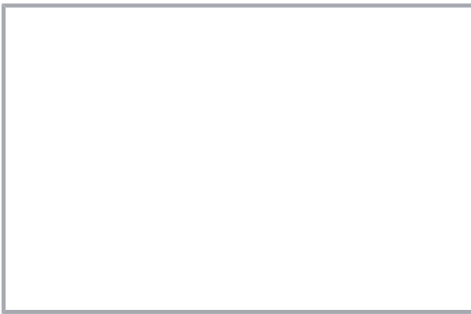
### Coding



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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