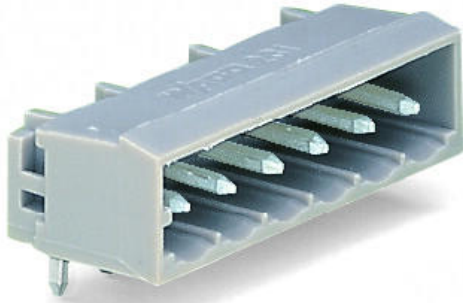


Data sheet | Item number: 231-433/001-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 3-pole;
gray

www.wago.com/231-433_001-000

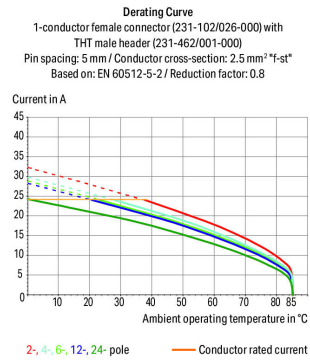


 Picture differs from the item.

RoHS 
Compliant

[BOMcheck.net](https://www.bomcheck.net)

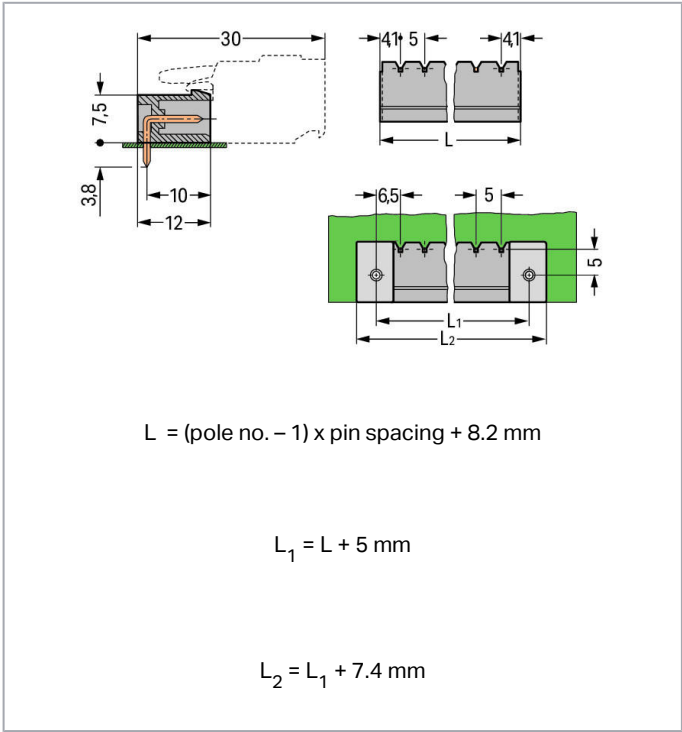
Color: 



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

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Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- With 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

Ratings per IEC/EN 60664-1

Ratings per	IEC/EN 60664-1
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

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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

Ratings per UL 1059

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

Ratings per UL 1977

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

Ratings per CSA

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.	3
Total number of potentials	3
Number of connection types	1
Number of levels	1

Physical data

Pin spacing	5 mm / 0.197 inch
Width	18.2 mm / 0.717 inch
Height	12.2 mm / 0.48 inch
Height from the surface	8.4 mm / 0.331 inch
Depth	12 mm / 0.472 inch
Solder pin length	3.8 mm

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Solder pin dimensions	1 x 1 mm
Drilled hole diameter with tolerance	1.4 ^(+0.1) mm

Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
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	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E _{Cu})
Contact plating	tin-plated
Fire load	0.021 MJ
Weight	1.1 g

Environmental Requirements

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

Product Group	3 (Multi Conn. System)
Packaging type	BOX
Country of origin	DE
GTIN	4044918866095
Customs tariff number	85366990990

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Approvals / Certificates

Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756
	CSA DEKRA Certification B.V.	C22.2	LR 18677-25

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ABS American Bureau of Shipping	-	19-HG1869876-PDA
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV
	DNV GL Det Norske Veritas, Germanischer Lloyd	-	TAE000016Z

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 1059	20190731-E45172
	UR UL International Germany GmbH	UL 1977	E45171

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Counterpart

**Item no.231-103/026-000**1-conductor female plug; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-103/026-000**Item no.231-2103/026-000**2-conductor female connector; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-2103/026-000**Item no.231-2103/037-000**2-conductor female connector; Locking lever; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-2103/037-000**Item no.2231-103/026-000**1-conductor female plug; push-button; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/2231-103/026-000**Item no.2231-103/026-000/133-000**1-conductor female plug; push-button; Strain relief plate; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/2231-103/026-000/133-000**Item no.2231-103/037-000**1-conductor female plug; push-button; Locking lever; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/2231-103/037-000**Item no.2231-103/031-000**1-conductor female plug; push-button; clamping collar; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/2231-103/031-000**Item no.231-103/031-000**1-conductor female plug; clamping collar; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-103/031-000**Item no.2231-103/102-000**1-conductor female plug; push-button; with integrated end plate; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/2231-103/102-000**Item no.231-103/037-000**1-conductor female plug; Locking lever; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-103/037-000**Item no.231-103/102-000**1-conductor female plug; with integrated end plate; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/231-103/102-000**Item no.232-203/026-000**1-conductor female plug; angled; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/232-203/026-000**Item no.232-103/026-000**1-conductor female plug; angled; 2.5 mm²; Pin spacing 5 mm; 3-pole; 2,50 mm²; graywww.wago.com/232-103/026-000

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Compatible products

Coding



Item no.: 231-129

Coding key; snap-on type; light gray

www.wago.com/231-129

Item no.: 231-500

Spacer; for formation of groups; light gray

www.wago.com/231-500

Marking accessories



Item no.: 210-833

Marking strips; on reel; 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

Downloads

Documentation

Additional Information

Technical explanations	Apr 3, 2019	pdf 3.6 MB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 231-433/001-000	URL	Download
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CAE data

EPLAN Data Portal 231-433/001-000	URL	Download
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ZUKEN Portal 231-433/001-000	URL	Download
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PCB Design

Symbol and Footprint 231-433/001-000	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

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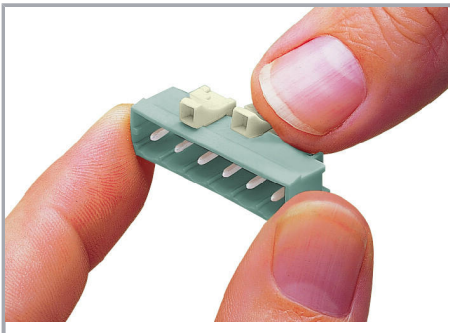
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- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect
- Mentor Graphics Design Expedition 99 and 2000
- OrCAD 9.X PCB and Capture
- PADS PowerPCB 3, 3.5, 4.X, and 5.X
- PADS PowerPCB and PowerLogic 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



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

Product family

<i>MCS</i> MIDI Classic

[Show all products from the family](#)

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