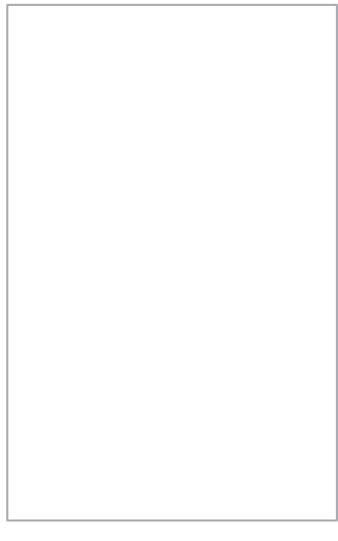
Male header; 2-pole; THR; 1.0 x 1.0 mm solder pin; angled; pin spacing 5 mm; black



www.wago.com/231-432_001-000_105-604





 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Dimensions in mm

L = (pole no. - 1) x pin spacing + 8.2 mm

 $L_1 = L + 4.8 \text{ mm}$

 $L_2 = L_1 + 7.2 \text{ mm}$

Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- Also available in bulk packaging for manual placement
- Male headers may be mounted horizontally or vertically

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

WAGO Corporation

Germantown, WI 53022

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With coding fingers

Data Notes

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.
Variants:	Other pole numbers Gold-plated or partially gold-plated contact surfaces Other versions (or variants) can be requested from WAGO Sales or configured at https://configurator.wago.com/

Electrical data

IEC Approvals

Ratings per	IEC/EN 60664-1
Rated 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) ≙ Overvoltage category III / Pollution degree 2

UL Approvals

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

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

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CSA Approvals

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

Total number of potentials	2
Number of connection types	1
Number of levels	1

Connection 1

Number of poles	2
-----------------	---

Physical data

Pin spacing	5 mm / 0.197 inch
Width	13.2 mm / 0.52 inch
Height	10.8 mm / 0.425 inch
Height from the surface	8.4 mm / 0.331 inch
Depth	12 mm / 0.472 inch
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	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°
Locking of plug-in connection	Without

PCB contact

PCB Contact	THR
Solder pin arrangement	over the entire male connector (in-line)

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Number of solder pins per potential 1

Material data

black
I
Polyphthalamide (PPA GF)
VO
Electrolytic copper (E _{Cu})
tin-plated
0.02 MJ
0.9 g

Environmental requirements

Limit temperature range	-60 +100 °C	
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Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	200 Stück
Packaging type	box
Country of origin	DE
GTIN	4044918988636
Customs tariff number	85366990990

Approvals / Certificates

Country specific Approvals

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

Ship Approvals

	ABS	-	19-
Logo	Approval	Additional Approval Text	name
			Certificate

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American Bureau of Shipping

HG1869876-PDA

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
W	UL Underwriters Laboratories Inc.	UL 1059	E45172
71 °	UR Underwriters Laboratories Inc.	UL 1977	E45171

Counterpart



Item no.231-102/026-000

Female plug; 2-pole; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray

www.wago.com/231-102/026-000

Optional accessories

od		

Intermediat	e plate	
0.0	Item no.: 231-500 Spacer; for formation of groups; light gray	www.wago.com/231-500
Coding		
4	Item no.: 231-129	www.waga.com/221_126
	Coding key; snap-on type; light gray	www.wago.com/231-129

Downloads

Documentation

Additional Information

Technical explanations	2019 Apr 3	pdf 2.0 MB	Download
THR Soldering Process		pdf 548.2 kB	Download

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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Download

URL

CAD files

CAD data

2D/3D Models 231-432/001-000/105-604 URL Download

CAE data

EPLAN Data Portal 231-432/001-000/105-604 URL Download

PCB Design

Symbol and Footprint 231-432/001-000/105-604

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

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Environmental Product Compliance

Compliance Search

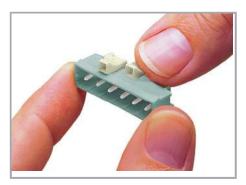
Environmental Product Compliance 231-432/001-000/105-604

THR male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5 mm; 2-pole; black

URL

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Installation Notes



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

Product family

MCS MIDI Classic Show all products from the family

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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