

## Data sheet | Item number: 231-333/001-000/105-604

THR male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 3-pole; black



[www.wago.com/231-333/001-000/105-604](http://www.wago.com/231-333/001-000/105-604)



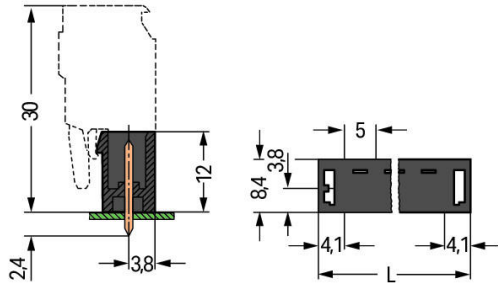
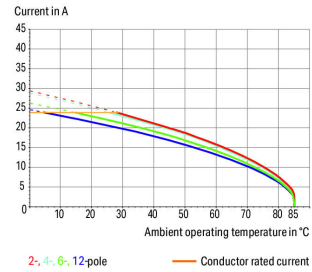
 Picture differs from the item.

RoHS  Compliant



Color: 

Derating Curve  
1-conductor female connector (231-102/026-000) with  
THR male header (231-432/001-000/105-604)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> T-st\*  
Based on: EN 60512-5-2 / Reduction factor: 0.8



### 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

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.



- Male headers may be mounted horizontally or vertically
- Coding option available

**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)	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) $\triangleq$ Overvoltage category III / Pollution degree 2

**Ratings per UL**

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

**Ratings per CSA**

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
Rated current CSA (Use Group B)	10 A

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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	5.08 mm / 0.2 inch
Width	18.36 mm / 0.726 inch
Height	17 mm / 0.669 inch
Height from the surface	12 mm / 0.472 inch
Depth	8.4 mm / 0.331 inch
Solder pin length	2.4 mm
Solder pin dimensions	1 x 1 mm
Plated through-hole diameter (THR)	1.4 <sup>(+0.1)</sup> mm

### Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Mating direction to the PCB	90°

### PCB contact

PCB Contact	THR
Solder pin arrangement	over the entire male connector (in-line)
Number of solder pins per potential	1

### Material data

Color	black
Material group	I
Insulation material	Polyphthalamide (PPA GF)
Flammability class per UL94	V0
Contact material	

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

	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Fire load	0.027 MJ
Weight	1.1 g

### Environmental requirements


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



Packaging type	BOX
Country of origin	PL
GTIN	4055143121828
Customs tariff number	85366990990

### Approvals / Certificates

#### Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	CSA DEKRA Certification B.V.	C22.2	1466354

#### UL-Approvals

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

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

## Counterpart



Item no.231-303/026-000

1-conductor female plug; 2.5 mm<sup>2</sup>; Pin spacing 5.08 mm; 3-pole; 2,50 mm<sup>2</sup>; orange

[www.wago.com/231-303/026-000](http://www.wago.com/231-303/026-000)

## Compatible products

### Marking accessories



Item no.: 210-833

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://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](http://www.wago.com/210-834)

### Coding



Item no.: 231-129

Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)



Item no.: 231-500

Spacer; for formation of groups; light gray

[www.wago.com/231-500](http://www.wago.com/231-500)

## Downloads

### Documentation

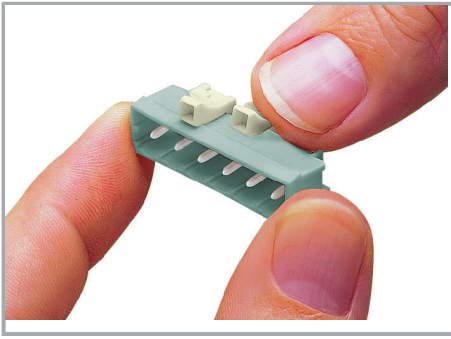
#### Additional Information

Technical explanations	3. 4. 2019	pdf 2.0 MB	Download
THR Soldering Process		pdf 548.2 kB	Download

## Installation Notes

### Coding

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



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

## Product family

*MCS* MIDI Classic

[Show all products from the family](#)

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