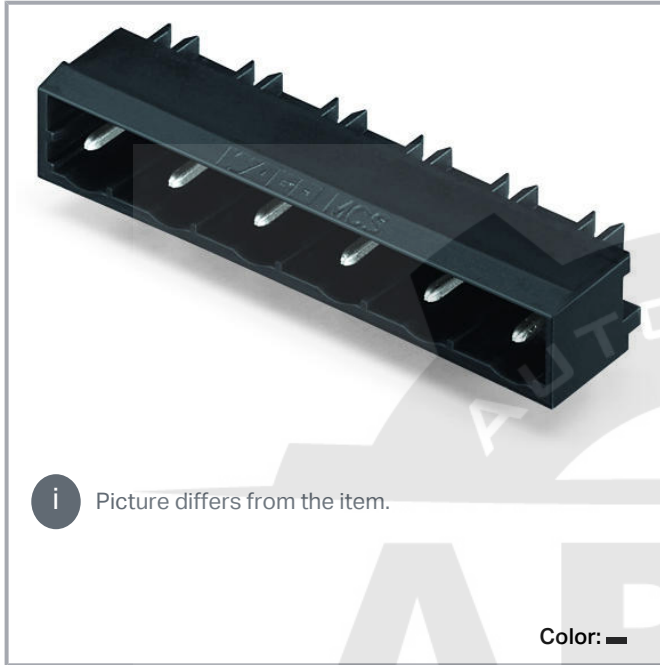


## Data sheet | Item number: 231-868/001-000/105-604

THR male header; 1.2 x 1.2 mm solder pin; angled; Pin spacing 7.5 mm; 8-pole; black

[www.wago.com/231-868\\_001-000\\_105-604](http://www.wago.com/231-868_001-000_105-604)

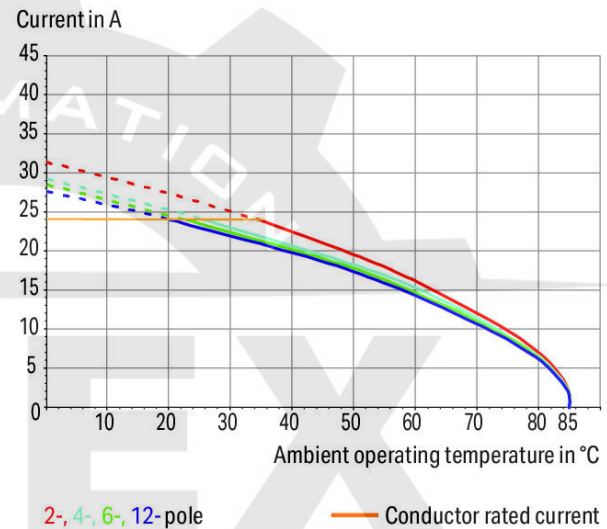


 Picture differs from the item.

Color: 

### Derating Curve

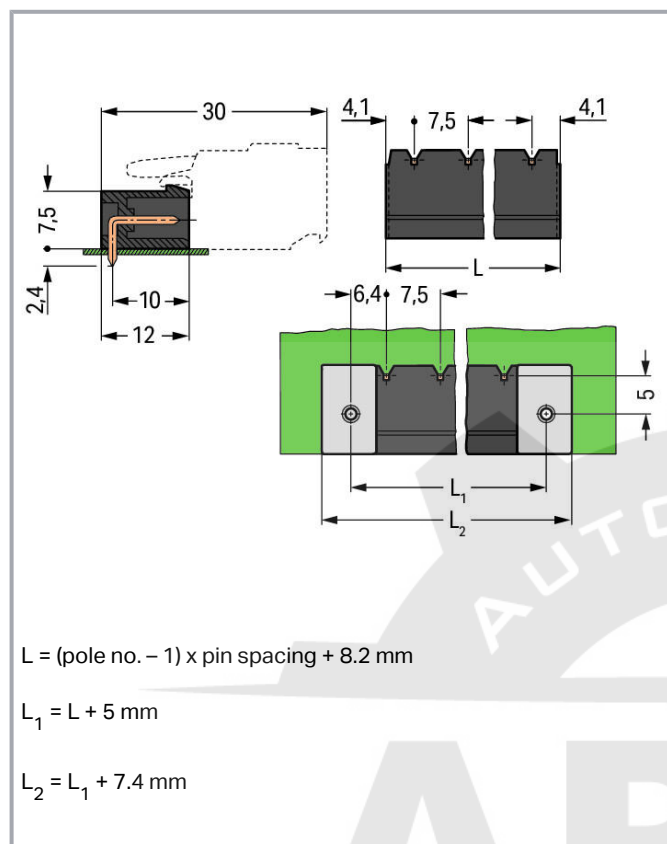
1-conductor female connector (231-202/026-000) with  
THR male header (231-832/001-000/105-604)  
Pin spacing: 7.5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8



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

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## Item description

- THR male headers for reflow soldering in SMT applications
- Available in tape-and-reel packaging for automated pick-and-place PCB assembly
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- Also available in bulk packaging for manual placement
- Male headers may be mounted horizontally or vertically
- 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

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

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## 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
Rated surge voltage (II/2)	6 kV
Rated current	16 A
Legend (ratings)	(III / 2) $\triangleq$ 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	15 A

## 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

Pole No.	8
Total number of potentials	8
Number of connection types	1
Number of levels	1

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## Physical data

Pin spacing	7.5 mm / 0.295 inch
Width	60.5 mm / 2.382 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	1.2 x 1.2 mm
Plated through-hole diameter (THR)	1.7 <sup>(+0.1)</sup> mm

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismatching 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)
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	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	tin-plated
Weight	4.1 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	PL
GTIN	4045454901400
Customs tariff number	8536694040

## 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	1466354
	KEMA/KEUR DEKRA Certification B.V.	EN 61984	2190761.01

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UR Underwriters Laboratories Inc.	UL 1977	20150318-E45171
	UR Underwriters Laboratories Inc.	UL 1059	E45172

## Counterpart



Item no. 231-208/026-000

Female plug; 8-pole; 12 AWG max; pin spacing 7.5 mm; 1 conductor per pole; gray

[www.wago.com/231-208/026-000](http://www.wago.com/231-208/026-000)



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## Optional accessories

### Coding

	<b>Item no.: 231-130</b> Coding key; snap-on type; light gray	<a href="http://www.wago.com/231-130">www.wago.com/231-130</a>
	<b>Item no.: 231-500</b> Spacer; for formation of groups; light gray	<a href="http://www.wago.com/231-500">www.wago.com/231-500</a>

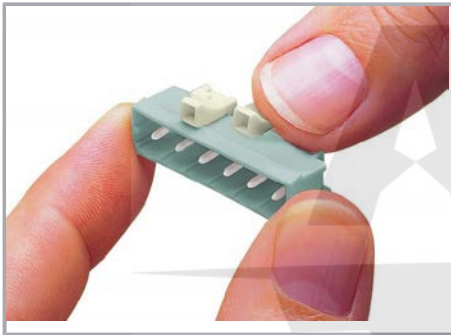
## Downloads

### Documentation

#### Additional Information

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

## Installation Notes



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

## Product family

**<i>MCS</i> MIDI Classic**

[Show all products from the family](#)

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

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