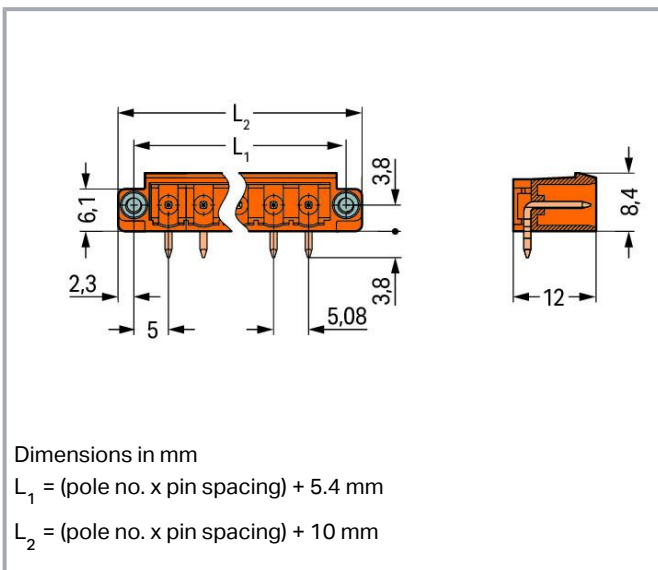
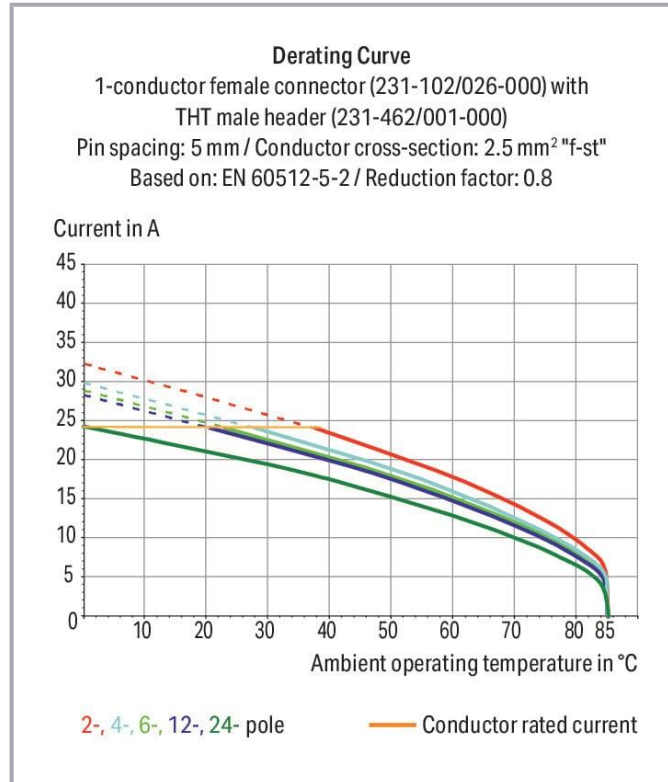
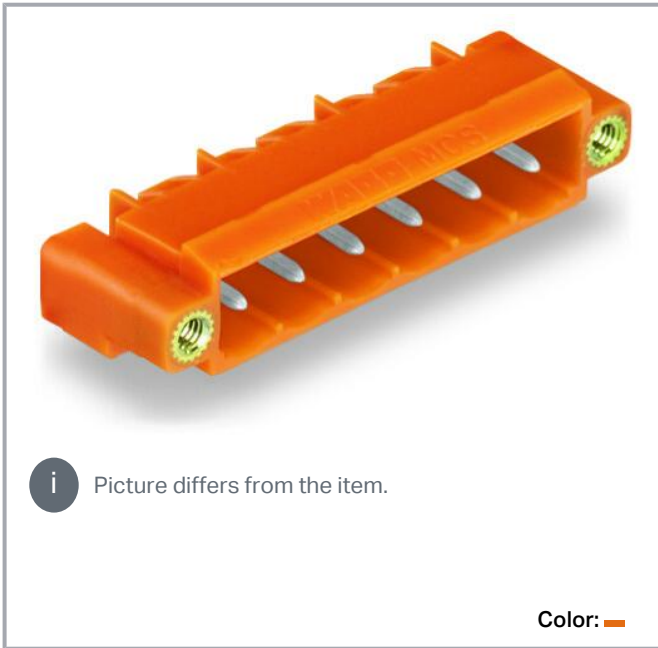


Data sheet | Item number: 231-564/108-000

THT male header; 1.2 x 1.2 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange



[www.wago.com/231-564/108-000](http://www.wago.com/231-564/108-000)



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## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- With coding fingers

## 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  
3.8 mm pin projection for male headers with straight solder pins  
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

### Ratings per IEC/EN

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	250 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse voltage (III/2)	4 kV
Nominal voltage (II/2)	630 V
Rated surge voltage (II/2)	4 kV
Rated current	16 A
Legend (ratings)	(III / 2) ≙ 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)	15 A
Rated voltage UL (Use Group D)	300 V

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Rated current UL (Use Group D)	10 A
--------------------------------	------

### Ratings per UL 1977

Rated voltage (UL 1977)	600 V
-------------------------	-------

Rated current UL 1977	15 A
-----------------------	------

### Ratings per CSA

Approvals per	CSA
---------------	-----

Rated voltage CSA (Use Group B)	300 V
---------------------------------	-------

Rated current CSA (Use Group B)	15 A
---------------------------------	------

Rated voltage CSA (Use Group D)	300 V
---------------------------------	-------

Rated current CSA (Use Group D)	10 A
---------------------------------	------

### Connection data

Total number of potentials	4
----------------------------	---

Number of connection types	1
----------------------------	---

Number of levels	1
------------------	---

### Connection 1

Pole number	4
-------------	---

### Physical data

Pin spacing	5.08 mm / 0.2 inches
-------------	----------------------

Width	30.32 mm / 1.194 inches
-------	-------------------------

Height	12.2 mm / 0.48 inches
--------	-----------------------

Height from the surface	8.4 mm / 0.331 inches
-------------------------	-----------------------

Depth	12 mm / 0.472 inches
-------	----------------------

Solder pin length	3.8 mm
-------------------	--------

Solder pin dimensions	1.2 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
--------------------------	-----

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## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	No
Mating direction to the PCB	0°
Locking of plug-in connection	Threaded flange

## PCB contact

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

## Material data

Note (material data)	Information on material specifications can be found here
Color	orange
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.037 MJ
Weight	2.3 g

## Environmental requirements

Limit temperature range	-60 ... +100 °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

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ECCN	NO DATA
PU (SPU)	100 pcs
Packaging type	box
Country of origin	DE
GTIN	4045454843731
Customs tariff number	85366930000

## Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	65887fcd-74d8-4230-9514-439fc93b7457
SCIP notification number (Belgium)	f9d4dcfd-0d87-402a-b545-fe6ba7a6bdcf
SCIP notification number (Bulgaria)	b55bca63-2db3-47e0-916b-5536523f90c5
SCIP notification number (Czech Republic)	08b9c036-6b63-4209-8489-1e14d0e4b379
SCIP notification number (Denmark)	80025ce4-a96f-44ac-8b18-3167b685098f
SCIP notification number (Finland)	efb85f3c-7ebc-4d17-a5a0-867cecd5fe26
SCIP notification number (France)	34d526cf-860f-4904-b5ea-980b7b831962
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SCIP notification number (Hungary)	a5c0c3a8-f7e8-4af1-a233-adb56bbc8e70
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SCIP notification number (Netherlands)	c78ca40f-fc97-460c-a9e6-6c369f675d8f
SCIP notification number (Poland)	60d131a4-3336-4489-bdc1-4999d636e58e
SCIP notification number (Romania)	715f48b5-a6f6-4b60-a1ef-5a3258991a30
SCIP notification number (Sweden)	7de73825-d34c-4060-a6fa-dfc347fb00fe


## Approvals / Certificates

### General approvals


Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756 /A1
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	71- 121453

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	UR Underwriters Laboratories Inc.	UL 1059	E45172
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**Declarations of conformity and manufacturer's declarations**

Logo	Approval	Additional Approval Text	Certificate name
	Railway WAGO GmbH & Co. KG	-	Railway Ready

**Approvals for marine applications**

Logo	Approval	Additional Approval Text	Certificate name
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV

**Counterpart**




Item no.231-304/107-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 4-pole; Screw flange; 2,50 mm²; orange

[www.wago.com/231-304/107-000](http://www.wago.com/231-304/107-000)

**Optional accessories**

Coding			
Intermediate plate			
	Item no.: 231-500 Spacer; for formation of groups; light gray		<a href="http://www.wago.com/231-500">www.wago.com/231-500</a>
Coding			
	Item no.: 231-129 Coding key; snap-on type; light gray		<a href="http://www.wago.com/231-129">www.wago.com/231-129</a>

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## Downloads

### Documentation

#### Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.1 MB	

## CAD/CAE-Data

### CAD data

2D/3D Models 231-564/108-000	URL	Download
------------------------------	-----	----------

### PCB Design

Symbol and Footprint via Ultra Librarian 231-564/108-000	URL	Download
--	-----	----------

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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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

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- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

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Symbol and Footprint via SamacSys 231-564/108-000

URL

Download

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!

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



- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

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#### CAE data

ZUKEN Portal 231-564/108-000	<a href="#">URL</a>	<a href="#">Download</a>
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#### Asset Administration Shell

Asset Administration Shell 231-564/108-000	<a href="#">URL</a>	<a href="#">Download</a>
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### Environmental Product Compliance

#### Compliance Search

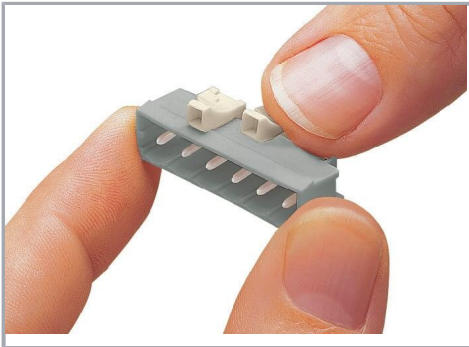
Environmental Product Compliance 231-564/108-000	<a href="#">URL</a>	<a href="#">Download</a>
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THT male header; 1.2 x 1.2 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 4-pole; orange

---

### Installation Notes

#### Coding



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

### Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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[93.731.4953.0](#) [PVP03-3,50](#) [PVS02-5,00](#) [1-1986160-3](#) [1377680000](#) [1531000000](#) [1546228-5](#) [ELFP03110](#) [ELFP10210](#) [ELFT07250](#)  
[ELVD12100](#) [ELVF09400](#) [ELXH071G0E](#) [1725220000](#) [1760336](#) [1855000000](#) [19346](#) [1946309](#) [1973592](#) [19892](#) [25.320.4053.1](#) [25.320.4553.9](#)  
[25.320.4753.1](#) [25.320.5453.1](#) [25.340.0353.1](#) [25.340.1053.1](#) [25.345.3553.0M001](#) [25.640.3553.1](#) [SH02-5,08](#) [SH06-3,81](#) [SH08-5,08](#) [SH08-](#)  
[5,08-K](#) [SH12-5,08](#) [SHS04-5,00](#) [30.303](#) [30.305](#) [30.306](#) [PHP09-5,08](#) [25.193.0453.0](#) [25.320.4653.1](#) [25.332.2453.1](#)