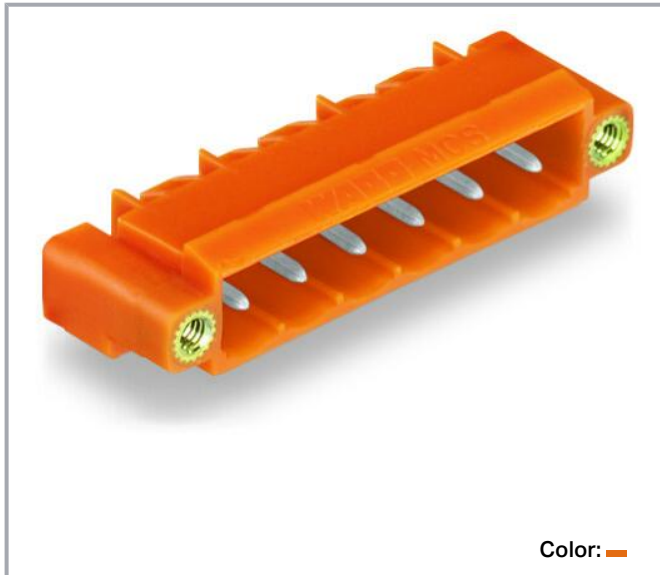


## Data sheet | Item number: 231-536/108-000

THT male header; 1.0 x 1.0 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 6-pole; orange

[www.wago.com/231-536/108-000](http://www.wago.com/231-536/108-000)

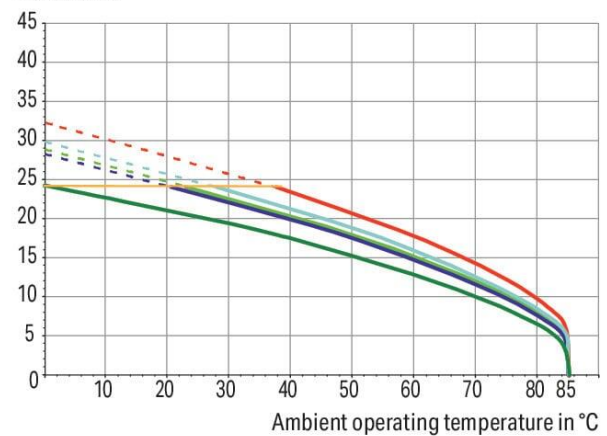


Color: 

### Derating Curve

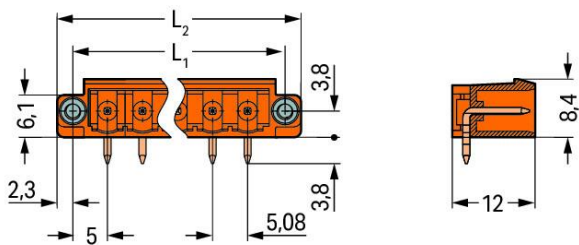
1-conductor female connector (231-102/026-000) with  
THT male header (231-462/001-000)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



2-, 4-, 6-, 12-, 24- pole

 Conductor rated current



Dimensions in mm

$L_1 = (\text{pole no.} \times \text{pin spacing}) + 5.4 \text{ mm}$

$L_2 = (\text{pole no.} \times \text{pin spacing}) + 10 \text{ mm}$

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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

## 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)       | 320 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                 | 12 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) | 10 A    |
| Rated voltage UL (Use Group D) | 300 V   |

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



|                                |      |
|--------------------------------|------|
| 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

|                            |   |
|----------------------------|---|
| Total number of potentials | 6 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|             |   |
|-------------|---|
| Pole number | 6 |
|-------------|---|

### Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5.08 mm / 0.2 inches     |
| Width                                | 40.48 mm / 1.594 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 x 1 mm                 |
| Drilled hole diameter with tolerance | 1.4 <sup>(+0.1)</sup> mm |

### Mechanical Data

|                          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

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



## 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                   | 0.048 MJ                                                 |
| Weight                      | 2.7 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               |

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



|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 100 pcs       |
| Packaging type        | box           |
| Country of origin     | PL            |
| GTIN                  | 4044918867023 |
| 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)        | f037a44a-29db-49dd-84e7-cd9254e8c55c |
| SCIP notification number (Belgium)        | 91fdf483-48ef-446e-964f-c76edce09688 |
| SCIP notification number (Bulgaria)       | a3bdfb9d-9c0d-4114-bcb2-38e69fcada30 |
| SCIP notification number (Czech Republic) | 946436fd-f009-494a-8393-811bc3cf7253 |
| SCIP notification number (Denmark)        | f6ca38de-6cd4-44ac-9569-39a961673700 |
| SCIP notification number (Finland)        | d7364a5a-e715-4ee3-80f1-a4ef304c5061 |
| SCIP notification number (France)         | 61e76497-bd45-4303-abe7-cbd500693940 |
| SCIP notification number (Germany)        | 4e807352-f8a7-4a93-a9ee-71d15ed5b45c |
| SCIP notification number (Hungary)        | 7ae28442-3579-4530-8b21-36784bc1e393 |
| SCIP notification number (Italy)          | 5943821b-0b7a-4758-850e-e0b7682d9607 |
| SCIP notification number (Netherlands)    | 173465a9-ef39-4282-b54d-e75ec9c7d9f1 |
| SCIP notification number (Poland)         | f6d69999-354b-49e0-87d5-218e675caa61 |
| SCIP notification number (Romania)        | 7de1ddd6-0877-407e-8337-05a74cbc31ab |
| SCIP notification number (Sweden)         | d495d035-b268-4c5b-8117-7a12d82a054b |

## Approvals / Certificates

### General approvals

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

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|                                                                                  |                                |         |        |
|----------------------------------------------------------------------------------|--------------------------------|---------|--------|
|  | UL                             | UL 1977 | E45171 |
|                                                                                  | UL International Germany GmbH  |         |        |
|  | UR                             | UL 1059 | E45172 |
|                                                                                  | Underwriters Laboratories Inc. |         |        |

## Declarations of conformity and manufacturer's declarations

| Logo                                                                             | Approval                      | Additional Approval Text | Certificate name |
|----------------------------------------------------------------------------------|-------------------------------|--------------------------|------------------|
|  | Railway<br>WAGO GmbH & Co. KG | -                        | Railway Ready    |

## Approvals for marine applications

| Logo                                                                               | Approval                  | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|---------------------------|--------------------------|------------------|
|  | BV<br>Bureau Veritas S.A. | IEC 60998                | 11915/D0<br>BV   |

## Counterpart

|                                                                                    |                                                                                                                                                                         |                                                                                  |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
|  | <b>Item no.231-306/107-000</b><br>1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 6-pole; Screw flange; 2,50 mm²; orange                       | <a href="http://www.wago.com/231-306/107-000">www.wago.com/231-306/107-000</a>   |
|  | <b>Item no.231-2306/107-000</b><br>2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 6-pole; Screw flange; 2,50 mm²; orange              | <a href="http://www.wago.com/231-2306/107-000">www.wago.com/231-2306/107-000</a> |
|  | <b>Item no.2231-306/107-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 6-pole; Screw flange; 2,50 mm²; orange | <a href="http://www.wago.com/2231-306/107-000">www.wago.com/2231-306/107-000</a> |

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## Optional accessories

### Coding

Intermediate plate



Item no.: 231-500

Spacer; for formation of groups; light gray

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

Coding



Item no.: 231-129

Coding key; snap-on type; light gray

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

## Downloads

### Documentation

#### Additional Information

2019 Apr 3

pdf  
2.1 MB

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## CAD/CAE-Data

### CAD data

2D/3D Models 231-536/108-000

[URL](#)

[Download](#)

### CAE data

EPLAN Data Portal 231-536/108-000

[URL](#)

[Download](#)

EPLAN Data Portal 231-536/108-000

[URL](#)

[Download](#)

ZUKEN Portal 231-536/108-000

[URL](#)

[Download](#)

### PCB Design

Symbol and Footprint via Ultra Librarian 231-536/108-000

[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

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- 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
- 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

Symbol and Footprint via SamacSys 231-536/108-000

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

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

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- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

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

Asset Administration Shell

|                                            |     |          |
|--------------------------------------------|-----|----------|
| Asset Administration Shell 231-536/108-000 | URL | Download |
|--------------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

|                                                                                                        |     |          |
|--------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 231-536/108-000                                                       | URL | Download |
| THT male header; 1.0 x 1.0 mm solder pin; angled; Threaded flange; Pin spacing 5.08 mm; 6-pole; orange |     |          |

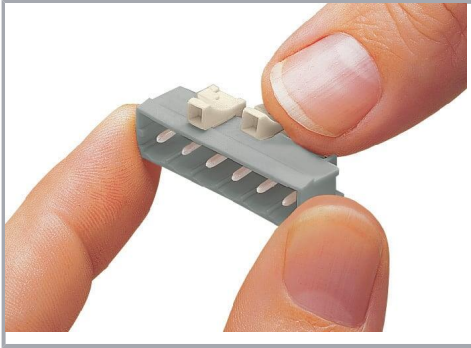
Installation Notes

Coding

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

## Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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