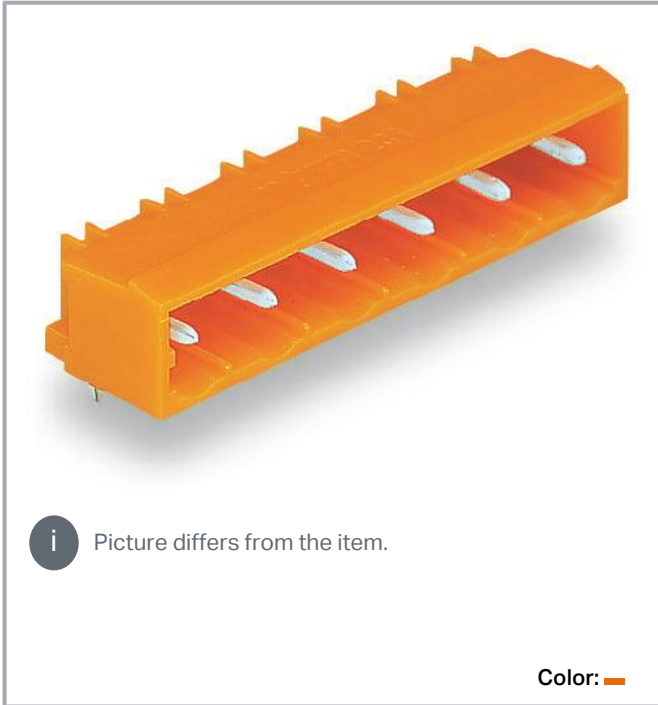


**Data sheet | Item number: 231-932/001-000**

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 7.62 mm; 2-pole; orange

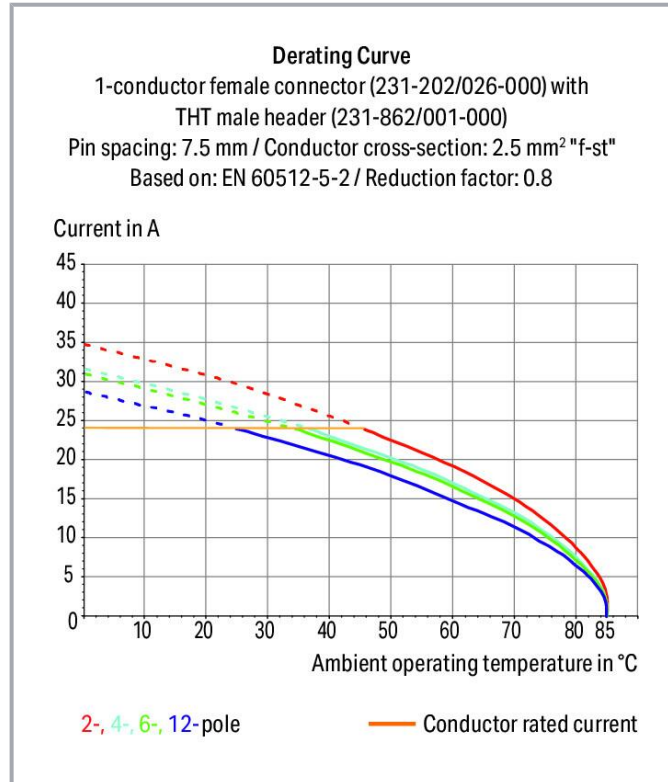


[www.wago.com/231-932/001-000](http://www.wago.com/231-932/001-000)



**i** Picture differs from the item.

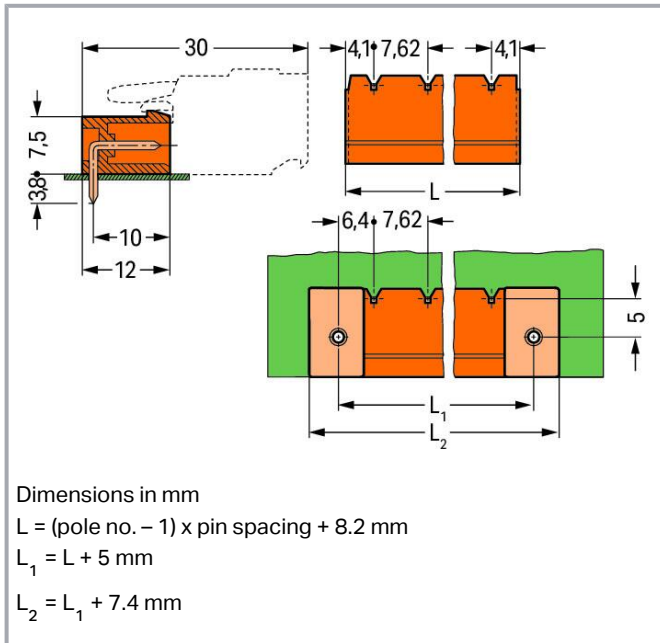
Color:



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

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Hansastr. 27  
32423 Minden  
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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

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### Ratings per IEC/EN

|                               |   |
|-------------------------------|---|
| Ratings per                   | IEC/EN 60664-1  |
| Nominal voltage (III/3)       | 500 V   |
| Rated impulse voltage (III/3) | 6 kV  |
| Rated voltage (III/2)         | 630 V   |
| Rated impulse voltage (III/2) | 6 kV  |
| Nominal voltage (II/2)        | 1000 V  |
| Rated surge voltage (II/2)    | 6 kV  |
| Rated current                 | 12 A  |
| Legend (ratings)              | (III / 2) $\hat{=}$ 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 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 | 2 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Connection 1

|             |   |
|-------------|---|
| Pole number | 2 |
|-------------|---|

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



## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 7.62 mm / 0.3 inches     |
| Width                                | 15.82 mm / 0.623 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 |

## 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        | none                |

## 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)        | <a href="#">Information on material specifications can be found here</a> |
| Color                       | orange   |
| Material group              | I  |
| Insulation material         | Polyamide (PA66)   |
| Flammability class per UL94 | V0   |

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

|                  |  |
|------------------|--|
| Contact material | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating  | Tin                                    |
| Fire load        | 0.019 MJ                               |
| Weight           | 0.9 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               |
| ECCN                  | NO DATA                |
| PU (SPU)              | 100 pcs                |
| Packaging type        | box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918868389          |
| Customs tariff number | 85366930000            |

### Environmental Product Compliance



|                        |                         |
|------------------------|-------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
|------------------------|-------------------------|

### Approvals / Certificates


#### General approvals

| Logo   | Approval                        | Additional Approval Text | Certificate name |
|--|---------------------------------|--------------------------|------------------|
|  | CB<br>DEKRA Certification B.V.  | IEC 61984                | NL-39756/A1      |
|  | CCC<br>CQC                      | GB/T 13140.1             | CQC03003003013   |
|  | CSA<br>DEKRA Certification B.V. | C22.2                    | 1466354          |



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

|  |                                      |         |        |
|--|--------------------------------------|---------|--------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1977 | E45171 |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059 | E45172 |




**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         |
|---|------------------------------------|--------------------------|--------------------------|
|    | ABS<br>American Bureau of Shipping | -                        | 19-<br>HG1869876-<br>PDA |
|  | BV<br>Bureau Veritas S.A.          | IEC 60998                | 11915/DO<br>BV           |

**Counterpart**

|  |  |  |
|--|--|--|
|  | Item no.231-702/026-000<br>1-conductor female connector; CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 7.62 mm; 2-pole; 2,50 mm <sup>2</sup> ; orange                                     | <a href="http://www.wago.com/231-702/026-000">www.wago.com/231-702/026-000</a>   |
|  | Item no.231-2702/026-000<br>2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 7.62 mm; 2-pole; with integrated end plate; 2,50 mm <sup>2</sup> ; orange | <a href="http://www.wago.com/231-2702/026-000">www.wago.com/231-2702/026-000</a> |
|  | Item no.231-2702/037-000<br>2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 7.62 mm; 2-pole; Lateral locking levers; 2,50 mm <sup>2</sup> ; orange    | <a href="http://www.wago.com/231-2702/037-000">www.wago.com/231-2702/037-000</a> |

Item no.2231-702/031-000

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1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; clamping collar; 2,50 mm²; orange

[www.wago.com/2231-702/031-000](http://www.wago.com/2231-702/031-000)



**Item no.2231-702/026-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; 2,50 mm²; orange

[www.wago.com/2231-702/026-000](http://www.wago.com/2231-702/026-000)



**Item no.2231-702/037-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; Lateral locking levers; 2,50 mm²; orange

[www.wago.com/2231-702/037-000](http://www.wago.com/2231-702/037-000)



**Item no.231-702/031-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; clamping collar; 2,50 mm²; orange

[www.wago.com/231-702/031-000](http://www.wago.com/231-702/031-000)



**Item no.231-702/037-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; Lateral locking levers; 2,50 mm²; orange

[www.wago.com/231-702/037-000](http://www.wago.com/231-702/037-000)



**Item no.732-122/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 2-pole; 2,50 mm²; orange

[www.wago.com/732-122/026-000](http://www.wago.com/732-122/026-000)

## 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.: 231-130**

Coding key; snap-on type; light gray

[www.wago.com/231-130](http://www.wago.com/231-130)

### Mounting

Mounting accessories



**Item no.: 231-393**

Locking device; for male connectors; 1 part; orange

[www.wago.com/231-393](http://www.wago.com/231-393)

## Downloads

### Documentation

### Additional Information

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Technical Section

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Technical explanations

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## CAD/CAE-Data

### CAD data

2D/3D Models 231-932/001-000

URL

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### CAE data

EPLAN Data Portal 231-932/001-000

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ZUKEN Portal 231-932/001-000

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EPLAN Data Portal 231-932/001-000

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### PCB Design

Symbol and Footprint via Ultra Librarian 231-932/001-000

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

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32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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- 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 231-932/001-000

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

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Hansastr. 27

32423 Minden

Phone: +49571 887-0 | Fax: +49571 887-169

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- 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 231-932/001-000 | URL | Download |
|--|-----|----------|

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#### Environmental Product Compliance

##### Compliance Search

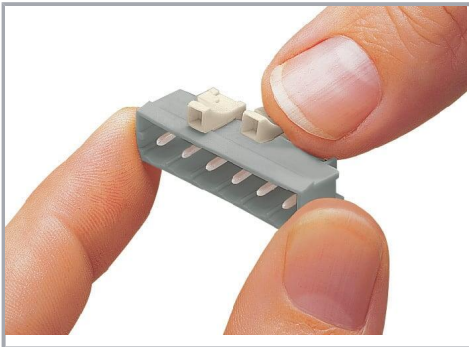
|  |     |          |
|--|-----|----------|
| Environmental Product Compliance 231-932/001-000 | URL | Download |
|--|-----|----------|

THT male header; 1.0 x 1.0 mm solder pin; angled; Pin spacing 7.62 mm; 2-pole; orange

---

#### Installation Notes

##### Coding



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!