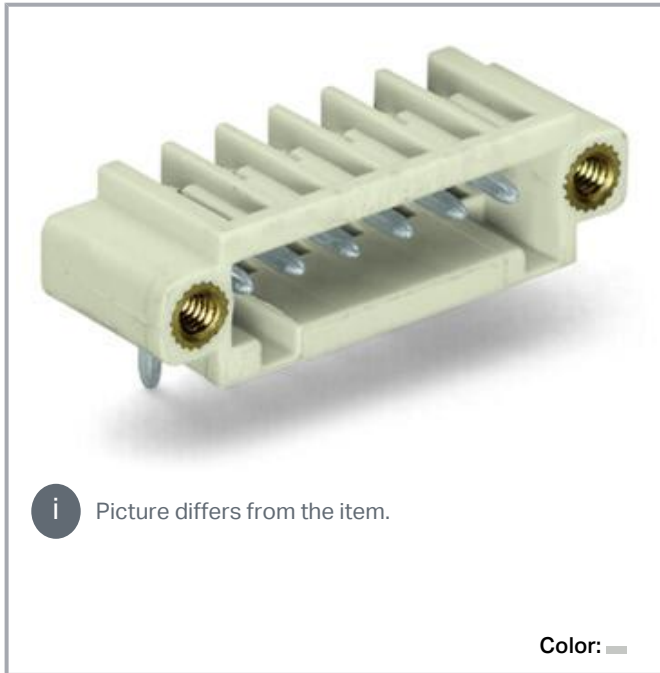


## Data sheet | Item number: 734-165/108-000

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against  
mismatching; Threaded flange; Pin spacing 3.5 mm; 5-pole; light gray

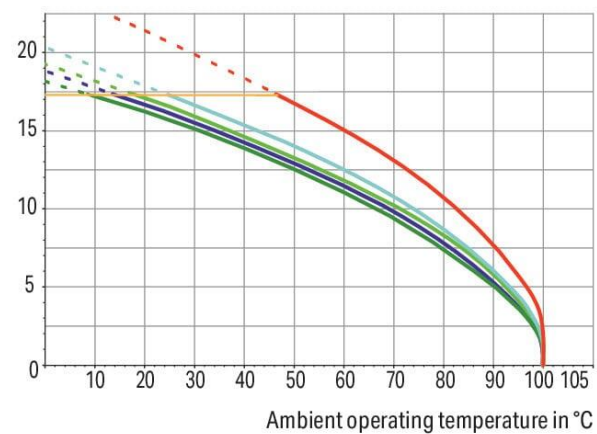
[www.wago.com/734-165/108-000](http://www.wago.com/734-165/108-000)



### Derating Curve

1-conductor female connector (734-102) with  
THT male header (734-162)  
Pin spacing: 3.5 mm / Conductor cross-section: 1.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



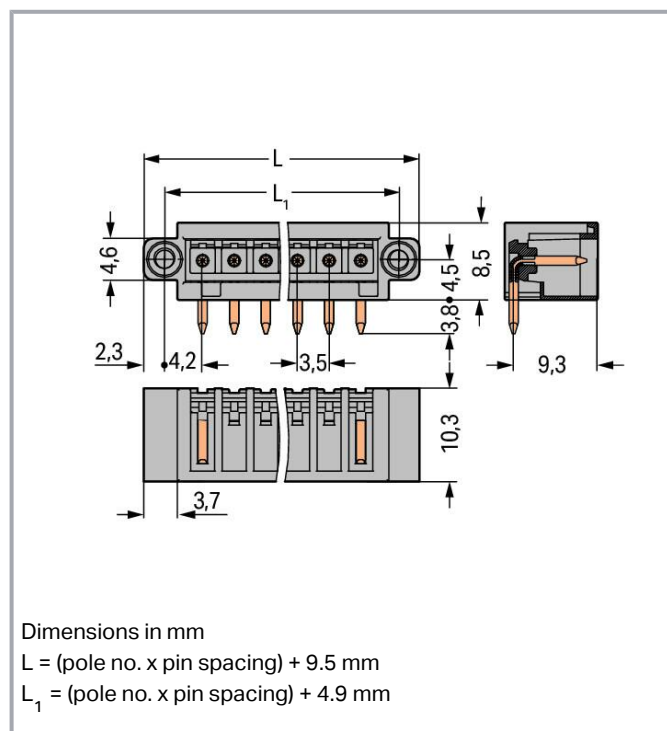
2-, 4-, 6-, 12-, 24- pole

Conductor rated current

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

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## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismating; only mating halves with the same number of poles can be connected together
- Coding option available

## 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  
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

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

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## Ratings per IEC/EN

| Ratings per                   | IEC/EN 60664-1                                                       |
|-------------------------------|----------------------------------------------------------------------|
| Nominal voltage (III/3)       | 160 V                                                                |
| Rated impulse voltage (III/3) | 2.5 kV                                                               |
| Rated voltage (III/2)         | 160 V                                                                |
| Rated impulse voltage (III/2) | 2.5 kV                                                               |
| Nominal voltage (II/2)        | 320 V                                                                |
| Rated surge voltage (II/2)    | 2.5 kV                                                               |
| Rated current                 | 10 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 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 | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|             |   |
|-------------|---|
| Pole number | 5 |
|-------------|---|

## Physical data

|             |                       |
|-------------|-----------------------|
| Pin spacing | 3.5 mm / 0.138 inches |
|-------------|-----------------------|

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



|                                      |                          |
|--------------------------------------|--------------------------|
| Width                                | 27 mm / 1.063 inches     |
| Height                               | 12.3 mm / 0.484 inches   |
| Height from the surface              | 8.5 mm / 0.335 inches    |
| Depth                                | 10.3 mm / 0.406 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                 | Yes                 |
| 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                       | light gray                                               |
| 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                   | 0.03 MJ                                                  |

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



|        |     |
|--------|-----|
| Weight | 2 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)              | 200 pcs                |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4045454683061          |
| 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)        | b499f30b-885a-410e-99b3-7d51c461d58f |
| SCIP notification number (Belgium)        | 38d0ab6e-5c09-42a2-bf36-b0a76f39d5a4 |
| SCIP notification number (Bulgaria)       | bee99415-a781-4f6f-9807-6f32ebe769ca |
| SCIP notification number (Czech Republic) | ecaaa598-61ca-4cc7-beda-752c81e55d76 |
| SCIP notification number (Denmark)        | 26612804-c0c4-4280-97c0-102604faece6 |
| SCIP notification number (Finland)        | 0f05f634-762f-4340-916a-5a49975d97df |
| SCIP notification number (France)         | e47f5fbf-dbb1-4464-8f22-5d07206b9d47 |
| SCIP notification number (Germany)        | 75af6283-35ad-4ee1-9b96-79355b8be19e |
| SCIP notification number (Hungary)        | 61f33ea9-9244-460d-b8a2-d8746347cf63 |
| SCIP notification number (Italy)          | 4c9fd3ea-1300-4cc1-9c61-7478976c8e27 |
| SCIP notification number (Netherlands)    | d010cf64-3a09-4d1c-bdbd-8bc671a24713 |
| SCIP notification number (Poland)         | 1bc599a9-7edd-4f85-8ac6-9b5732866804 |
| SCIP notification number (Romania)        | b48c5cc7-8998-4e19-9355-4e2c13a40d10 |

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## Counterpart


**Item no. 734-105/107-000**

1-conductor female connector; CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray

[www.wago.com/734-105/107-000](http://www.wago.com/734-105/107-000)


**Item no. 2734-105/107-000**

1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm²; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Screw flange; 1,50 mm²; light gray

[www.wago.com/2734-105/107-000](http://www.wago.com/2734-105/107-000)

## Optional accessories

### Coding

#### Coding


**Item no.: 734-159**

Coding key; to be snapped above top level; black

[www.wago.com/734-159](http://www.wago.com/734-159)


**Item no.: 734-130**

Coding key; to be snapped above top level; white

[www.wago.com/734-130](http://www.wago.com/734-130)

## Downloads

### Documentation

#### Additional Information

|                        |            |        |          |
|------------------------|------------|--------|----------|
| Technical Section      | 2019 年4月3日 | pdf    | Download |
| Technical explanations |            | 2.1 MB |          |

## CAD/CAE-Data

### CAD data

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 734-165/108-000 | URL | Download |
|------------------------------|-----|----------|

### PCB Design

|                                                          |     |          |
|----------------------------------------------------------|-----|----------|
| Symbol and Footprint via Ultra Librarian 734-165/108-000 | 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

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



- 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
- 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 734-165/108-000

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

—  
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- 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!
- xDX Designer
- Xpedition

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

CAE data

|                              |     |          |
|------------------------------|-----|----------|
| ZUKEN Portal 734-165/108-000 | URL | Download |
|------------------------------|-----|----------|

Asset Administration Shell

|                                            |     |          |
|--------------------------------------------|-----|----------|
| Asset Administration Shell 734-165/108-000 | URL | Download |
|--------------------------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

|                                                                                                                                               |     |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 734-165/108-000                                                                                              | URL | Download |
| THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Threaded flange; Pin spacing 3.5 mm; 5-pole; light gray |     |          |

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

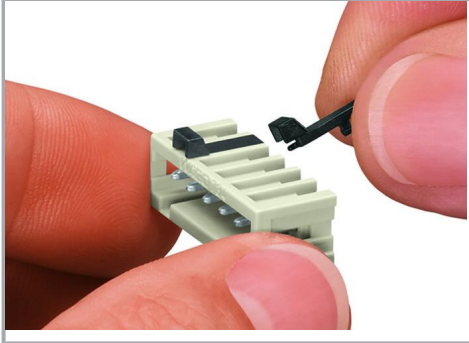
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## Installation Notes

### Coding



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

### Product family

#### MCS MINI

[Show all products from the family](#)

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

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