

**Data sheet | Item number: 734-165**

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

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



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

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We are always happy to take your call at +49 (571) 887-44222.



### Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- 100% protected against mismatching; 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

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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)       | 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) $\hat{=}$ 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 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  |

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### 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    |
| Width                                | 19.9 mm / 0.783 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        | none                |

### PCB contact

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

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## 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                   | 0.02 MJ                                |
| Weight                      | 1.3 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               |
| PU (SPU)              | 200 pcs                |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918872287          |
| Customs tariff number | 85366930000            |

## Environmental Product Compliance

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

## Counterpart

### Item no.734-105

1-conductor female connector; CAGE CLAMP®; 1.5 mm<sup>2</sup>; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 1,50 mm<sup>2</sup>; light gray

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

### Item no.2734-105

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|   |  |
|---|--|
| 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 1,50 mm <sup>2</sup> ; light gray   | <a href="http://www.wago.com/2734-105">www.wago.com/2734-105</a>                               |
| <b>Item no.2734-105/031-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; clamping collar; 1,50 mm <sup>2</sup> ; light gray               | <a href="http://www.wago.com/2734-105/031-000">www.wago.com/2734-105/031-000</a>               |
| <b>Item no.2734-105/037-000</b><br>1-conductor female connector; push-button; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm <sup>2</sup> ; light gray        | <a href="http://www.wago.com/2734-105/037-000">www.wago.com/2734-105/037-000</a>               |
| <b>Item no.734-105/037-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm <sup>2</sup> ; light gray                              | <a href="http://www.wago.com/734-105/037-000">www.wago.com/734-105/037-000</a>                 |
| <b>Item no.734-105/037-000/033-000</b><br>1-conductor female connector; CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; Strain relief plate; 1,50 mm <sup>2</sup> ; light gray | <a href="http://www.wago.com/734-105/037-000/033-000">www.wago.com/734-105/037-000/033-000</a> |
| <b>Item no.2734-1105/327-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 1,50 mm <sup>2</sup> ; light gray                                     | <a href="http://www.wago.com/2734-1105/327-000">www.wago.com/2734-1105/327-000</a>             |
| <b>Item no.2734-1105/038-000</b><br>1-conductor female connector; lever; Push-in CAGE CLAMP®; 1.5 mm <sup>2</sup> ; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Lateral locking levers; 1,50 mm <sup>2</sup> ; light gray             | <a href="http://www.wago.com/2734-1105/038-000">www.wago.com/2734-1105/038-000</a>             |
| <b>Item no.734-535/037-000</b><br>THT female header; angled; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray   | <a href="http://www.wago.com/734-535/037-000">www.wago.com/734-535/037-000</a>                 |
| <b>Item no.734-535</b><br>THT female header; angled; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray  | <a href="http://www.wago.com/734-535">www.wago.com/734-535</a>                                 |
| <b>Item no.734-465/037-000</b><br>THT female header; straight; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; Locking lever; 0.9 x 0.9 mm solder pin; light gray   | <a href="http://www.wago.com/734-465/037-000">www.wago.com/734-465/037-000</a>                 |
| <b>Item no.734-465</b><br>THT female header; straight; Pin spacing 3.5 mm; 5-pole; 100% protected against mismatching; 0.9 x 0.9 mm solder pin; light gray  | <a href="http://www.wago.com/734-465">www.wago.com/734-465</a>                                 |

## Optional accessories

### Coding

|  |  |
|--|--|
| Coding   |  |
| <b>Item no.: 734-159</b><br>Coding key; to be snapped above top level; black | <a href="http://www.wago.com/734-159">www.wago.com/734-159</a> |
| <b>Item no.: 734-130</b><br>Coding key; to be snapped above top level; white | <a href="http://www.wago.com/734-130">www.wago.com/734-130</a> |

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**Downloads****Documentation****Additional Information**

2019 年4月3日

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2D/3D Models 734-165

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Symbol and Footprint 734-165

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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
- Altium 6 to current version
- 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

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

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

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## Environmental Product Compliance

### Compliance Search

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

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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!