

**Data sheet | Item number: 734-163**

THT male header; 1.0 x 1.0 mm solder pin; angled; 100% protected against mismatching; Pin spacing 3.5 mm; 3-pole; light gray

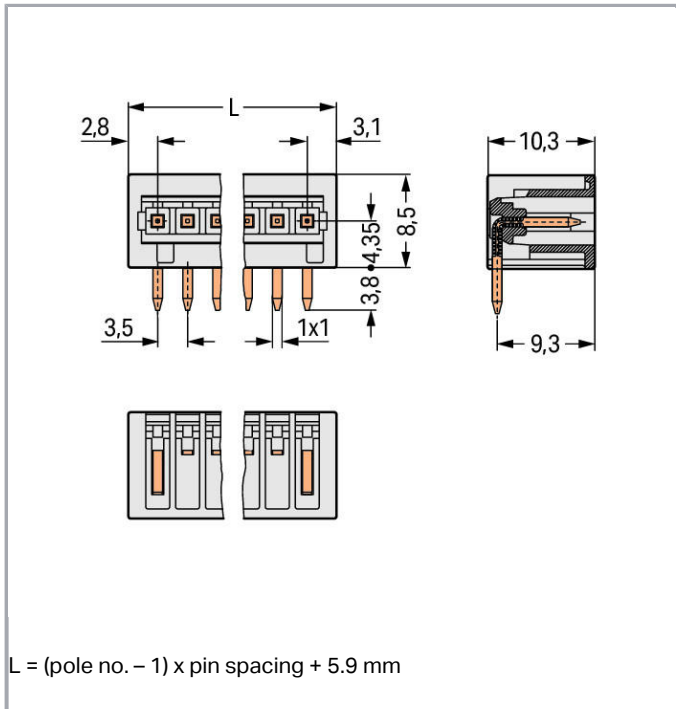
[www.wago.com/734-163](http://www.wago.com/734-163)



Subject to changes.

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Do you have any questions about our products?  
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 via coding fingers

### Safety information 1:

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

### Data

#### Electrical data

#### Ratings per IEC/EN 60664-1

|                                 |        |
|---------------------------------|--------|
| Rated 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 |
| Rated voltage (II / 2)          | 320 V  |

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|                                |   |
|--------------------------------|---|
| Rated impulse voltage (II / 2) | 2.5 kV  |
| Rated current                  | 10 A  |
| Legend (ratings)               | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### 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  |

### 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

|                            |   |
|----------------------------|---|
| No. of poles               | 3 |
| Total number of potentials | 3 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Geometrical Data

|                                   |                              |
|-----------------------------------|------------------------------|
| Pin spacing                       | 3.5 mm / 0.138 inch          |
| Width                             | 12.9 mm / 0.508 inch         |
| Height                            | 12.3 mm / 0.484 inch         |
| Height from the surface           | 8.5 mm / 0.335 inch          |
| Depth                             | 10.3 mm / 0.406 inch         |
| Solder pin length                 | 3.8 mm                       |
| Solder pin dimensions             | 1 x 1 mm                     |
| Drilled hole diameter (tolerance) | 1.4 <sup>(-...+0.1)</sup> mm |

### Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector connection type          | for PCBs            |
| Mismating protection               | Yes                 |

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|                             |    |
|-----------------------------|----|
| Mating direction to the PCB | 0° |
|-----------------------------|----|

### PCB contact

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

### Material Data

|                             |  |
|-----------------------------|--|
| Color                       | light gray                             |
| Material group              | I                                      |
| Insulating material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.014 MJ                               |
| Weight                      | 0.9 g                                  |

### Environmental Requirements

|                         |                 |
|-------------------------|-----------------|
| Limit temperature range | -60 ... +100 °C |
|-------------------------|-----------------|

### Commercial data

|                    |                        |
|--------------------|------------------------|
| Product Group      | 3 (Multi Conn. System) |
| Packaging type     | BOX                    |
| Country of origin  | DE                     |
| GTIN               | 4044918872232          |
| Customs Tariff No. | 85366990990            |

### Compatible products

#### Coding

|  |  |  |
|--|--|--|
|  | <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> |
|  | <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> |

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## Downloads

### Documentation

#### Additional Information

|                        |             |               |          |
|------------------------|-------------|---------------|----------|
| Technical explanations | Apr 3, 2019 | pdf<br>3.6 MB | Download |
|------------------------|-------------|---------------|----------|

### CAD/CAE-Data

#### CAD data

|                      |     |          |
|----------------------|-----|----------|
| 2D/3D Models 734-163 | URL | Download |
|----------------------|-----|----------|

#### CAE data

|                           |          |
|---------------------------|----------|
| EPLAN Data Portal 734-163 | Download |
|---------------------------|----------|

#### PCB Design

|                              |     |          |
|------------------------------|-----|----------|
| Symbol and Footprint 734-163 | 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
- 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
- STL
- 3D STEP

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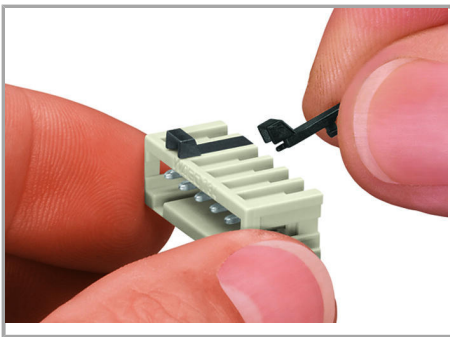
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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## Installation Notes

### Coding



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

## Product family

*MCS* MINI

[Show all products from the family](#)

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