

## Data sheet | Item number: 733-364

THT male header; 0.8 x 0.8 mm solder pin; angled; 100% protected against mismatching; Pin spacing 2.5 mm; 4-pole; light gray

[www.wago.com/733-364](http://www.wago.com/733-364)



 Picture differs from the item.

RoHS   
Compliant

BOMcheck.net

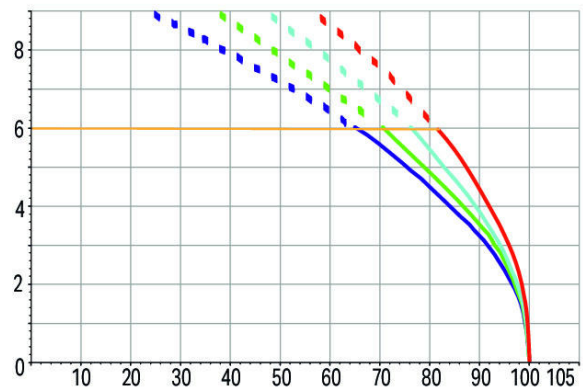
Color: 

### Derating Curve

1-conductor female connector (733-102) with  
THT male header (733-362)

Pin spacing: 2.5 mm / Conductor cross-section: 0.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



Ambient operating temperature in °C

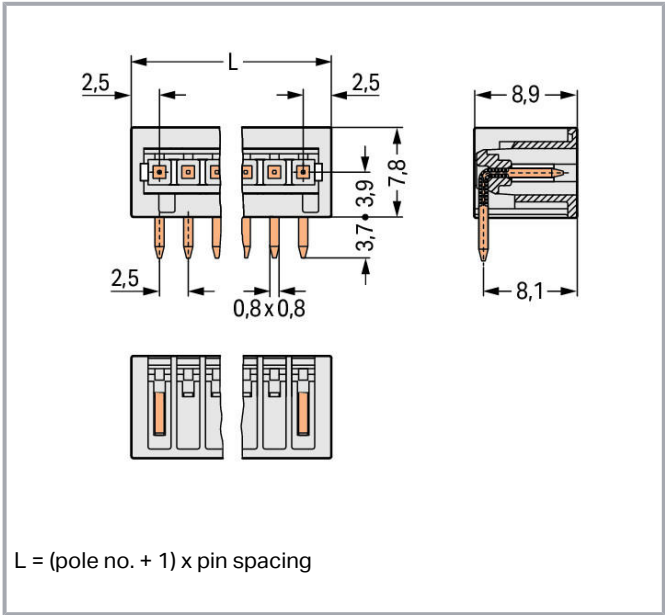
2-, 4-, 6-, 12-pole

— Conductor rated current

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

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Item description

- 100% protected against mismating; only mating halves with the same pole number can be connected
- Coding option available

Safety information 1:

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. The circuit design should ensure header pins, which can be touched, are not live when unmated.

Data

Electrical data

Ratings per IEC/EN

| Ratings per                 | IEC/EN 60664-1 |
|-----------------------------|----------------|
| Nominal voltage (III/3)     | 80 V           |
| Rated surge voltage (III/3) | 2.5 kV         |
| Rated voltage (III/2)       | 160 V          |
| Rated surge voltage (III/2) | 2.5 kV         |
| Nominal voltage (II/2)      | 320 V          |
| Rated surge voltage (II/2)  | 2.5 kV         |
| Rated current               | 6 A            |

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Legend (ratings)

(III / 2)  $\triangleq$  Overvoltage category III / Pollution degree 2**Ratings per UL**

|                                |         |
|--------------------------------|---------|
| Approvals per                  | UL 1059 |
| Rated voltage UL (Use Group B) | 150 V   |
| Rated current UL (Use Group B) | 4 A     |

**Ratings per CSA**

|                                 |       |
|---------------------------------|-------|
| Approvals per                   | CSA   |
| Rated voltage CSA (Use Group B) | 150 V |
| Rated current CSA (Use Group B) | 4 A   |

**Connection data**

|                            |   |
|----------------------------|---|
| Pole No.                   | 4 |
| Total number of potentials | 4 |
| Number of connection types | 1 |
| Number of levels           | 1 |

**Physical data**

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 2.5 mm / 0.098 inch      |
| Width                                | 12.5 mm / 0.492 inch     |
| Height                               | 11.5 mm / 0.453 inch     |
| Height from the surface              | 7.8 mm / 0.307 inch      |
| Depth                                | 8.9 mm / 0.35 inch       |
| Solder pin length                    | 3.7 mm                   |
| Solder pin dimensions                | 0.8 x 0.8 mm             |
| Drilled hole diameter with tolerance | 1.1 <sup>(+0.1)</sup> mm |

**Plug-in connection**

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCB             |
| Mismating protection               | Yes                 |
| Mating direction to the PCB        | 0°                  |

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## 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                                |
| Insulation material         | Polyamide (PA66)                 |
| Flammability class per UL94 | V0                               |
| Contact material            | Electrolytic copper ( $E_{Cu}$ ) |
| Contact plating             | tin-plated                       |
| Fire load                   | 0.011 MJ                         |
| Weight                      | 0.7 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                  | 4044918974363          |
| Customs tariff number | 85366990990            |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval                        | Additional Approval Text | Certificate name |
|------|---------------------------------|--------------------------|------------------|
|      | CCA<br>DEKRA Certification B.V. | EN 61984                 | 2169534.01       |
|      | CCA<br>DEKRA Certification B.V. | IEC 61984                | NL-31141         |
|      | CSA                             | C22.2                    | 1465035          |

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DEKRA Certification B.V.

## Ship Approvals

| Logo                                                                              | Approval                                                | Additional Approval Text | Certificate name         |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------|--------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG1869876-<br>PDA |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z               |
|  | <b>LR</b><br>Lloyds Register                            | IEC 61984                | 96/20035<br>(E5)         |

## UL-Approvals

| Logo                                                                               | Approval                                    | Additional Approval Text | Certificate name    |
|------------------------------------------------------------------------------------|---------------------------------------------|--------------------------|---------------------|
|  | <b>UL</b><br>UL International Germany GmbH  | UL 1977                  | E45171              |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172-<br>19950922 |

## Counterpart



### Item no.733-104

1-conductor female plug; 100% protected against mismatching; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 4-pole; 0,50 mm<sup>2</sup>; light gray [www.wago.com/733-104](http://www.wago.com/733-104)



### Item no.733-104/037-000

1-conductor female plug; 100% protected against mismatching; Locking lever; 0.5 mm<sup>2</sup>; Pin spacing 2.5 mm; 4-pole; 0,50 mm<sup>2</sup>; light gray

[www.wago.com/733-104/037-000](http://www.wago.com/733-104/037-000)

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## Compatible products

### Coding

|                                                                                 |                                                      |                                                                |
|---------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------|
|  | Item no.: 733-330<br>Coding key; snap-on type; white | <a href="http://www.wago.com/733-330">www.wago.com/733-330</a> |
|  | Item no.: 733-331<br>Coding key; snap-on type; black | <a href="http://www.wago.com/733-331">www.wago.com/733-331</a> |

## Downloads

### Documentation

#### Additional Information

|                        |            |               |          |
|------------------------|------------|---------------|----------|
| Technical explanations | 2019 Apr 3 | pdf<br>2.0 MB | Download |
|------------------------|------------|---------------|----------|

## CAD/CAE-Data

### CAE data

|                           |     |          |
|---------------------------|-----|----------|
| EPLAN Data Portal 733-364 | URL | Download |
| ZUKEN Portal 733-364      | URL | Download |

### PCB Design

|                              |     |          |
|------------------------------|-----|----------|
| Symbol and Footprint 733-364 | 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

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- 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

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

#### CAD data

| 2D/3D Models 733-364 | URL | Download |
|----------------------|-----|----------|
|----------------------|-----|----------|

#### Environmental Product Compliance

##### Compliance Search

| Environmental Product Compliance 733-364                                                                                     | URL | Download |
|------------------------------------------------------------------------------------------------------------------------------|-----|----------|
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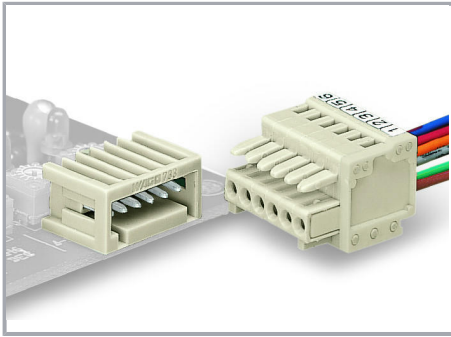
#### Installation Notes

##### Mismatching protection

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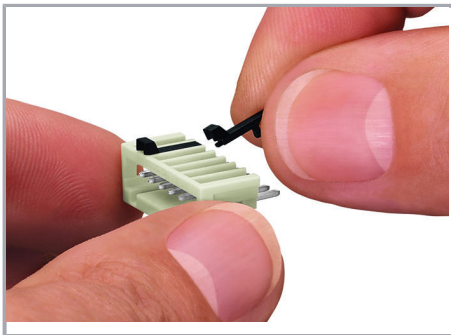
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Male headers and female connectors are 100% protected against mismatching.

Only mating halves with the same pole number can be connected.

### Coding



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

### Product family

**<i>MCS</i> MICRO**

[Show all products from the family](#)

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