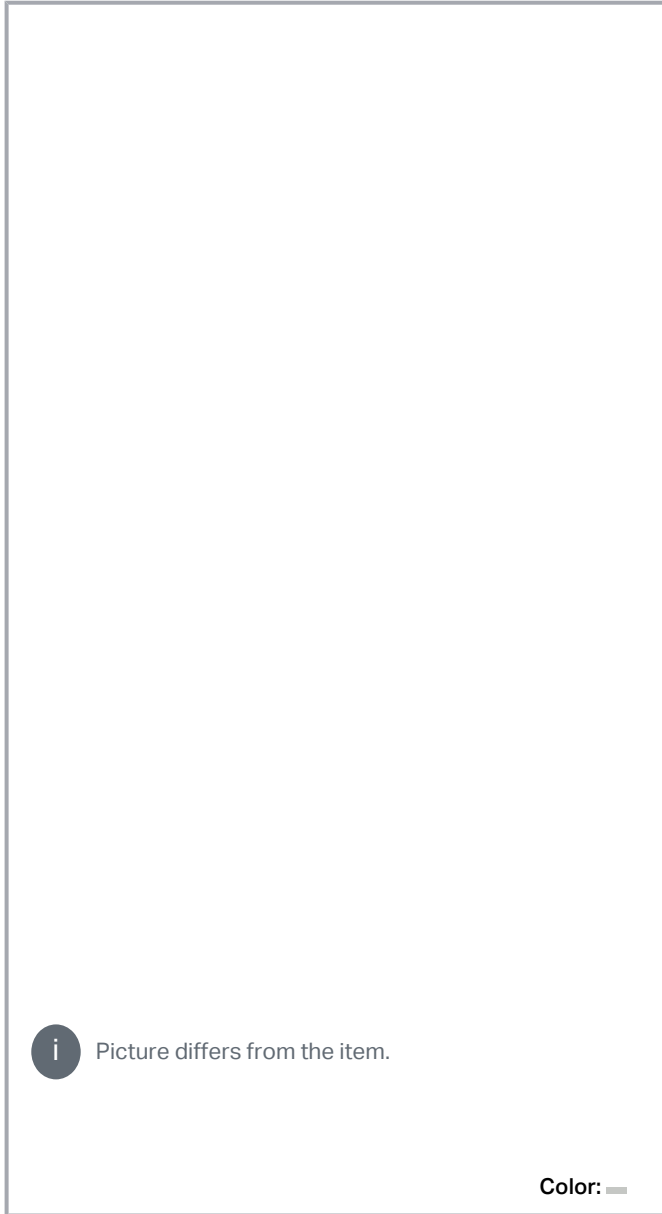


## Data sheet | Item number: 733-364

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)



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

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Dimensions in mm

$L = (\text{pole no.} + 1) \times \text{pin spacing}$

## Item description

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

## Data

### Notes

Safety information 1

The *MCS – MULTI CONNECTION SYSTEM* includes connectors without breaking capacity in accordance with DIN EN 61984. When

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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: | <p>Other pole numbers</p> <p>3.8 mm pin projection for male headers with straight solder pins</p> <p>Gold-plated or partially gold-plated contact surfaces</p> <p>Other versions (or variants) can be requested from WAGO Sales or configured at <a href="https://configurator.wago.com/">https://configurator.wago.com/</a></p> |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 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                                                                  |
| 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

|                            |   |
|----------------------------|---|
| Total number of potentials | 4 |
| Number of connection types | 1 |
| Number of levels           | 1 |

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



## Connection 1

|          |   |
|----------|---|
| Pole No. | 4 |
|----------|---|

## 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°                  |

## 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 on material data       | Information on material data 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-plated                                     |
| Fire load                   | 0.011 MJ                                       |
| Weight                      | 0.7 g                                          |

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

## Environmental requirements

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

## Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 200 Stück              |
| 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<br>DEKRA Certification B.V. | C22.2                    | 1465035          |

### Ship Approvals

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

### UL-Approvals

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

## Counterpart

|                                                                                                                                                                                                    |                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| <b>Item no.733-104</b><br>1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismatching; 0,50 mm²; light gray                                 | <a href="http://www.wago.com/733-104">www.wago.com/733-104</a>                 |
| <b>Item no.733-104/037-000</b><br>1-conductor female connector; CAGE CLAMP®; 0.5 mm²; Pin spacing 2.5 mm; 4-pole; 100% protected against mismatching; Lateral locking levers; 0,50 mm²; light gray | <a href="http://www.wago.com/733-104/037-000">www.wago.com/733-104/037-000</a> |

## Optional accessories

### Coding

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

## Downloads

### Documentation

#### Additional Information

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

## CAD/CAE-Data

### CAE data

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

ZUKEN Portal 733-364

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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
- 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

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**Environmental Product Compliance****Compliance Search**

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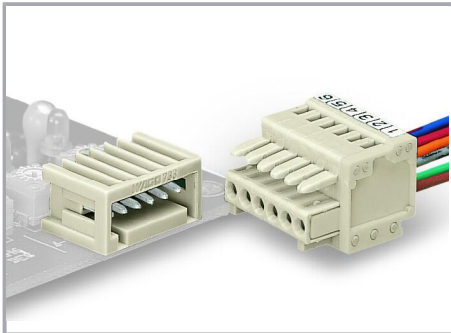
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Environmental Product Compliance 733-364

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

## Installation Notes

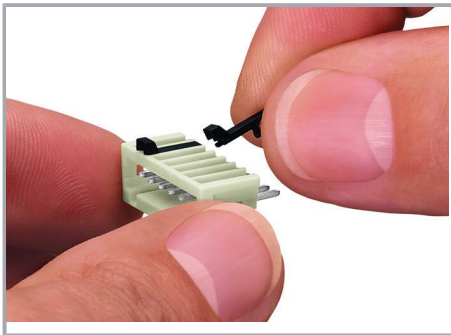
### Mismatching protection



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

### MCS MICRO

[Show all products from the family](#)

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