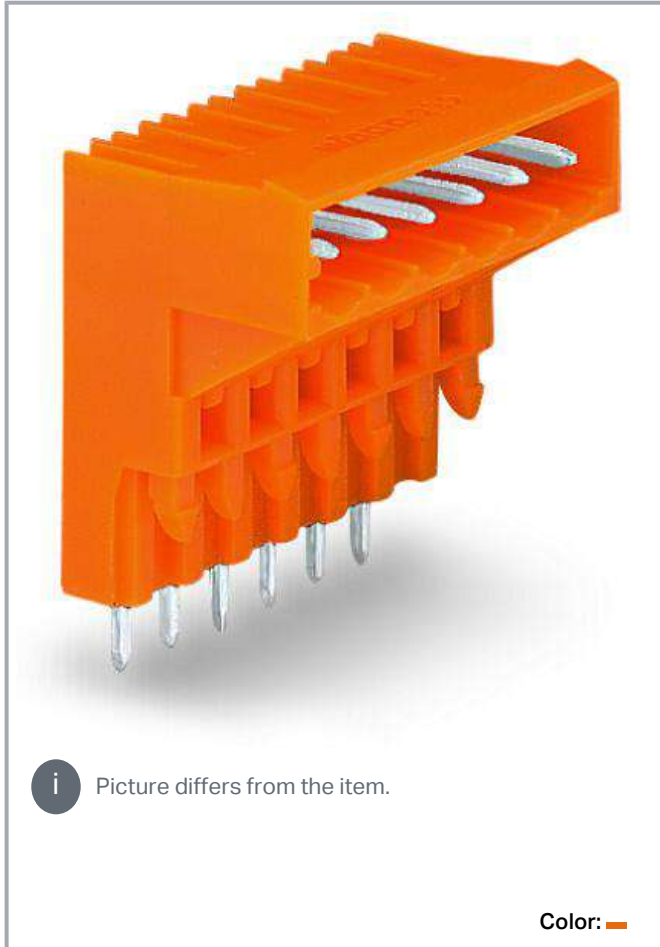


**Data sheet | Item number: 232-370**

THT male header for double-deck assembly; 1.0 x 1.0 mm solder pin; angled;  
Pin spacing 5.08 mm; 10-pole; orange



[www.wago.com/232-370](http://www.wago.com/232-370)



**i** Picture differs from the item.

Color: 



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

WAGO Corporation  
Germantown, WI 53022  
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Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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Dimensions in mm

Length = (pole no. – 1) x pin spacing + 8.2 mm

The solder pins of the “lower” male headers are in line.

The solder pins of the “lower” female headers are staggered by half a pin spacing.

## Item description

- Male headers for double-deck assembly provide high-density wiring for wire-to-board connections
- Horizontal PCB mounting
- Double-deck design allows male or female headers with angled solder pins to be placed on the lower deck
- Coding option available

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

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## Data

### Notes

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.

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

### IEC Approvals

|                             |   |
|-----------------------------|---|
| Ratings per                 | IEC/EN 60664-1  |
| Rated voltage (III / 3)     | 320 V   |
| Rated surge voltage (III/3) | 4 kV  |
| Rated voltage (III/2)       | 320 V   |
| Rated surge voltage (III/2) | 4 kV  |
| Nominal voltage (II/2)      | 630 V   |
| Rated surge voltage (II/2)  | 4 kV  |
| Rated current               | 12 A  |
| Legend (ratings)            | (III / 2) $\hat{=}$ Overvoltage category III / Pollution degree 2 |

### UL Approvals

|                                |         |
|--------------------------------|---------|
| 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 UL

|                       |       |
|-----------------------|-------|
| Rated voltage UL 1977 | 600 V |
| Rated current UL 1977 | 10 A  |

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## CSA Approvals

|                                 |       |
|---------------------------------|-------|
| 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 | 10 |
| Number of connection types | 1  |
| Number of levels           | 1  |

## Connection 1

|                 |    |
|-----------------|----|
| Number of poles | 10 |
|-----------------|----|

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5.08 mm / 0.2 inch       |
| Width                                | 54 mm / 2.126 inch       |
| Height                               | 31 mm / 1.22 inch        |
| Height from the surface              | 26 mm / 1.024 inch       |
| Depth                                | 17 mm / 0.669 inch       |
| Solder pin length                    | 5 mm                     |
| Solder pin dimensions                | 1 x 1 mm                 |
| Drilled hole diameter with tolerance | 1.4 <sup>(+0.1)</sup> mm |

## Plug-in connection

|                                    |             |
|------------------------------------|-------------|
| Contact type (pluggable connector) | Male header |
| Connector (connection type)        | for PCB     |
| Mismating protection               | No          |
| Mating direction to the PCB        | 0°          |
| Locking of plug-in connection      | Without     |

## PCB contact

|                        |  |
|------------------------|--|
| PCB Contact            | THT                                      |
| Solder pin arrangement | over the entire male connector (in-line) |

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

|                                     |   |
|-------------------------------------|---|
| Number of solder pins per potential | 1 |
|-------------------------------------|---|

### Material data

|                             |  |
|-----------------------------|--|
| Color                       | orange                                 |
| 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                   | 0.163 MJ                               |
| Weight                      | 8.8g                                   |

### Environmental requirements


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

### Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 50 Stück               |
| Packaging type        | box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918685641          |
| Customs tariff number | 8536694040             |

### Approvals / Certificates

#### Country specific Approvals

| Logo   | Approval                                     | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CB</b><br>DEKRA Certification B.V.        | IEC 61984                | NL-39756         |
|  | <b>KEMA/KEUR</b><br>DEKRA Certification B.V. | EN 61984                 | 2190761.01       |

#### Ship Approvals

| Logo | Approval   | Additional Approval Text | Certificate name |
|------|------------|--------------------------|------------------|
|      | <b>ABS</b> | -                        | 19-              |

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



American Bureau of Shipping



HG15869876-PDA

|   |   |            |
|---|---|------------|
| <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |
|---|---|------------|



|                              |           |               |
|------------------------------|-----------|---------------|
| <b>LR</b><br>Lloyds Register | IEC 61984 | 96/20035 (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           |

**Counterpart**



Item no. 231-310/026-000

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 10-pole; 2,50 mm²; orange

[www.wago.com/231-310/026-000](http://www.wago.com/231-310/026-000)

**Optional accessories**

**Coding**

Coding



Item no.: 231-160

Coding pin; for coding lower male headers; push-in type; light gray

[www.wago.com/231-160](http://www.wago.com/231-160)



Item no.: 231-129

Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)

**Downloads**

**Documentation**

**Additional Information**

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Technical explanations

2019 Apr 3

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## CAD files

### CAD data

2D/3D Models 232-370

[URL](#)

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### CAE data

EPLAN Data Portal 232-370

[URL](#)

[Download](#)

---

ZUKEN Portal 232-370

[URL](#)

[Download](#)

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### PCB Design

Symbol and Footprint 232-370

[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

—  
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- 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 232-370

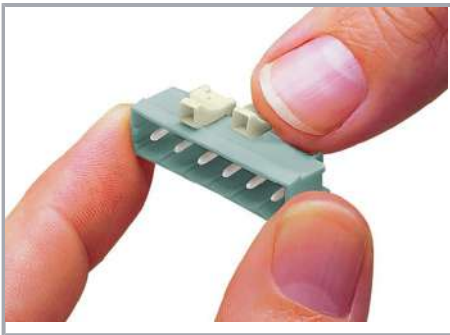
URL

Download

THT male header for double-deck assembly; 1.0 x 1.0 mm solder pin; angled; Pin spacing 5.08 mm; 10-pole; orange

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## Installation Notes



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

## Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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