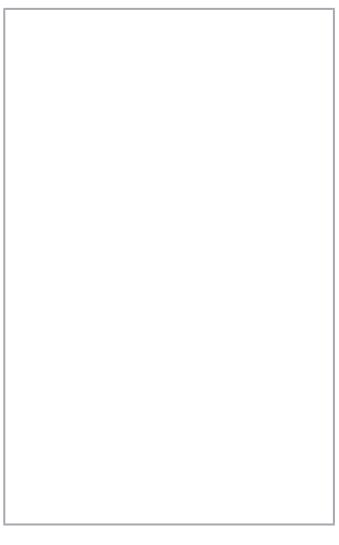
THT female header; angled; Pin spacing 7.5 mm; 13-pole; 0.6 x 1.0 mm solder pin; gray



www.wago.com/232-843





 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$

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| - : | | | |
|------------|---------|----|----|
| Dimen | einne | ın | mm |
| | 1310113 | | |

 $L = (pole no. - 1) \times pin spacing + 5 mm + 1.5 mm$

Distance to first solder pin: 2.2 mm

2- to 3-pole female connectors – one latch only

Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- With coding fingers

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 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

IEC Approvals

| Ratings per | IEC/EN 60664-1 |
|-----------------------------|---|
| Rated voltage (III / 3) | 500 V |
| Rated surge voltage (III/3) | 6 kV |
| Rated voltage (III/2) | 630 V |
| Rated surge voltage (III/2) | 6 kV |
| Nominal voltage (II/2) | 1000 V |
| Rated surge voltage (II/2) | 6 kV |
| Rated current | 12 A |
| Legend (ratings) | (III / 2) ≙ 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) | 15 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 | 15 A |

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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CSA Approvals

| Approvals per | CSA |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A |
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A |

Connection data

| Total number of potentials | 13 |
|----------------------------|----|
| Number of connection types | 1 |
| Number of levels | 1 |

Connection 1

| Number of poles | 13 | |
|-----------------|----|--|
|-----------------|----|--|

Physical data

| Pin spacing | 7.5 mm / 0.295 inch |
|--------------------------------------|--------------------------|
| Width | 96.5 mm / 3.799 inch |
| Height | 16.6 mm / 0.654 inch |
| Height from the surface | 11.6 mm / 0.457 inch |
| Depth | 18.25 mm / 0.719 inch |
| Solder pin length | 5 mm |
| Solder pin dimensions | 0.6 x 1 mm |
| Drilled hole diameter with tolerance | 1.3 ^(+0.1) mm |

Plug-in connection

| Contact type (pluggable connector) | Female 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 | ТНТ |
|------------------------|--|
| Solder pin arrangement | over the entire female connector (in-line) |

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

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Material data

| Color | gray |
|-----------------------------|------------------|
| Material group | 1 |
| Insulation material | Polyamide (PA66) |
| Flammability class per UL94 | VO |
| Contact material | Copper alloy |
| Contact plating | tin-plated |
| Fire load | 0.283 MJ |
| Weight | 14.3 g |

Environmental requirements

Limit temperature range -60 ... +85 °C

Commercial data

| Product Group | 3 (Multi Conn. System) |
|-----------------------|------------------------|
| PU (SPU) | 10 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918580199 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Country specific Approvals

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

Ship Approvals

| | | | Certificate |
|------|-----------------------------|--------------------------|-------------|
| Logo | Approval | Additional Approval Text | name |
| | ABS | - | 19- |
| | American Bureau of Shipping | | HG15869876- |

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PDA

| | DNV GL | - | TAE000016Z |
|------------------------------|--|-----------|---------------|
| | Det Norske Veritas, Germanischer Lloyd | | |
| | LR | IEC 61984 | 96/20035 (E5) |
| BY REPORTED IN THE AMERICAN. | Lloyds Register | | |
| UL-Approval | ls | | |

Logo

Approval Additional Approval Text Certificate name

UR UL 1059 E45172

Underwriters Laboratories Inc.



UR UL 1977 E 45171 Underwriters Laboratories Inc.

Counterpart



Item no.731-613

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 13-pole; 2,50 mm²; gray

www.wago.com/731-613



Item no.731-613/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.5 mm; 13-pole; clamping collar; 2,50 mm²; gray

www.wago.com/731-613

/019-000

Optional accessories

Testing accessories

Testing accessories



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable

www.wago.com/210-136



Item no.: 231-662

Test plugs for female connectors; for 7.5 mm and 7.62 mm pin spacing; 2,50 mm²; light gray

www.wago.com/231-662

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Downloads

Documentation

| Additional ∆ | Information |
|--------------|----------------|
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PCB Design

Symbol and Footprint 232-843 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

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- 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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 232-843

URL

Download

THT female header; angled; Pin spacing 7.5 mm; 13-pole; 0.6 x 1.0 mm solder pin; gray

Installation Notes

Product family

MCS MIDI Classic

Show all products from the family

 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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