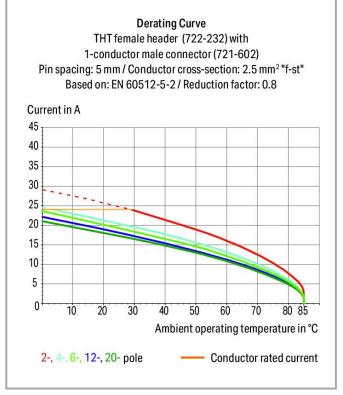
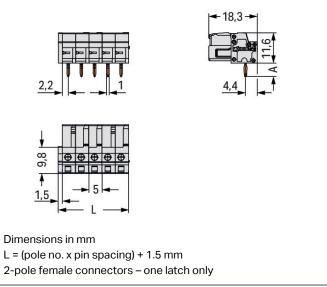
THT female header; angled; Pin spacing 5 mm; 8-pole; 100% protected against mismating; 0.6 x 1.0 mm solder pin; light gray



www.wago.com/722-238







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

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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
- 100 % protected against mismating
- With coding fingers

Data Notes

| Safety information | 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. 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

Ratings per IEC/EN

| Ratings per | IEC/EN 60664-1 |
|-------------------------------|--|
| Nominal voltage (III/3) | 320 V |
| Rated impulse voltage (III/3) | 4 kV |
| Rated voltage (III/2) | 320 V |
| Rated impulse 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) Overvoltage category III / Pollution degree 2 |

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

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Ratings per UL

| 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 1977

| Rated voltage (UL 1977) | 600 V |
|-------------------------|-------|
| Rated current UL 1977 | 15 A |

Ratings per CSA

| 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 | 8 | |
|----------------------------|---|--|
| Number of connection types | 1 | |
| Number of levels | 1 | |

Connection 1

| Pole number | 8 | |
|-------------|---|--|

Physical data

| Pin spacing | 5 mm / 0.197 inches |
|--------------------------------------|-------------------------|
| Width | 41.5 mm / 1.634 inches |
| Height | 16.6 mm / 0.654 inches |
| Height from the surface | 11.6 mm / 0.457 inches |
| Depth | 18.25 mm / 0.719 inches |
| Solder pin length | 5 mm |
| Solder pin dimensions | 0.6 x 1 mm |
| Drilled hole diameter with tolerance | |

Drilled hole diameter with tolerance

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

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| 13 | (±0.1) | mm |
|----|--------|----|
| | | |

| ΝЛ | 20 | han | 102 | า | 2t2 |
|-----|----|-------|-----|---|-----|
| IVI | | ııaıı | ıva | u | ala |

| Variable coding | Yes |
|--------------------------|-----|
| Anti-rotation protection | Yes |

Plug-in connection

| Contact type (pluggable connector) | Female connector/socket |
|--------------------------------------|-------------------------|
| Connector (connection type) | for PCB |
| Mismating protection | Yes |
| Plugging without loss of pin spacing | No |
| Mating direction to the PCB | 0° |
| Locking of plug-in connection | none |

PCB contact

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

Material data

Note (material data)

| Intormation | ∩n material | specifications ca | n he tound here |
|----------------|-------------|-------------------|--------------------|
| IIIIOIIIIauoii | oniniatonai | Specifications ca | II DC IOUIIU IICIC |

| Color | light gray | |
|-----------------------------|------------------|--|
| Material group | I | |
| Insulation material | Polyamide (PA66) | |
| Flammability class per UL94 | VO | |
| Contact material | Copper alloy | |
| Contact plating | Tin | |
| Fire load | 0.125 MJ | |
| Weight | 7.4 g | |
| | | |

Environmental requirements

| Limit temperature range | -60 +85 °C |
|-------------------------|------------|
| Processing temperature | -35 +60 °C |

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Commercial data

| 3 (Multi Conn. System) |
|------------------------|
| 27-44-04-02 |
| 27-44-04-02 |
| EC002637 |
| EC002637 |
| NO DATA |
| 50 pcs |
| box |
| DE |
| 4044918580717 |
| 85366990990 |
| |

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|-----------------------------|--------------------------|------------------|
| | CB DEKRA Certification B.V. | IEC 61984 | NL-39756/A1 |
| COC | CCC CQC | GB/T 13140.1 | CQC03003003013 |



KEMA/KEURDEKRA Certification B.V.

EN 61984

UL 1977

71-121453



UR

Underwriters Laboratories Inc.

E45171

Declarations of conformity and manufacturer's declarations

| | | | Certificate |
|------|--------------------|--------------------------|-------------|
| Logo | Approval | Additional Approval Text | name |
| | Railway | - | Railway |
| | WAGO GmbH & Co. KG | | Ready |

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

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| Approvals for marine applications | | | |
|-----------------------------------|------------------------------------|--------------------------|--------------------------|
| Logo | Approval | Additional Approval Text | Certificate name |
| ABS. | ABS American Bureau of Shipping | - | 19- HG1869876- PDA |
| DNV DNV | DNV DNV GL SE | - | TAE000016Z |

IEC 61984

Counterpart



Item no.721-608

Lloyds Register

LR

 $1-conductor\ male\ connector;\ CAGE\ CLAMP^{\tiny{\textcircled{\tiny{0}}}};\ 2.5\ mm^2;\ Pin\ spacing\ 5\ mm;\ 8-pole;\ 100\%\ protected\ against\ mismating;\ 2,50\ mm^2;\ light\ gray$

www.wago.com/721-

96/20035

(E5)



Item no.721-608/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismating; clamping collar; 2,50 mm²; light gray

www.wago.com/721-608/019-000



Item no.721-608/034-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 100% protected against mismating; Strain relief plate; 2,50 mm²; light gray

www.wago.com/721-608/034-000

Optional accessories

Marking accessories

Marking strip



Item no.: 210-833

Marking strips; 25 m on roll; 6 mm wide; plain; Self-adhesive; white

www.wago.com/210-833

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www.wago.com/722-238





Item no.: 210-834 Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

www.wago.com/210-834

Testing and measuring

Testing accessories



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

www.wago.com/210-136



Item no.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

www.wago.com/231-661

URL

Downloads Documentation

Additional Information

Technical Section 2019 年4月3日 pdf Download Technical explanations 2.1 MB

CAD/CAE-Data

CAE data

| EPLAN Data Portal 722-238 | URL | Download |
|---------------------------|-----|----------|
| ZUKEN Portal 722-238 | URL | Download |

PCB Design

Symbol and Footprint via Ultra Librarian 722-238

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
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- Cadence Allegro
- DesignSpark
- Eagle Libraries

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URL

Download

- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 722-238

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace

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- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

CAD data

2D/3D Models 722-238

URL Download

Asset Administration Shell

Asset Administration Shell 722-238

URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 722-238

THT female header; angled; Pin spacing 5 mm; 8-pole; 100% protected against mismating; 0.6 x 1.0 mm solder pin; light gray

URL Download

Installation Notes

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Product family

MCS MIDI

Show all products from the family

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