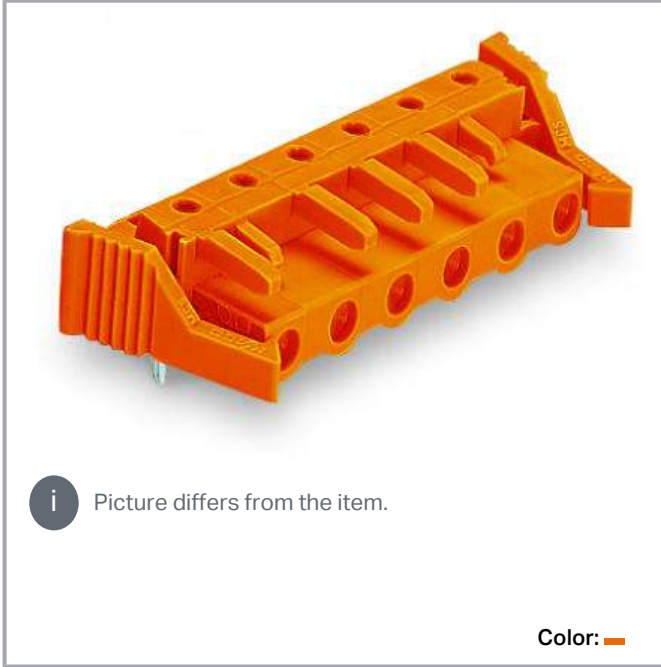


Data sheet | Item number: 232-870/039-000

THT female header; angled; Pin spacing 7.62 mm; 10-pole; Locking lever; 0.6 x 1.0 mm solder pin; orange

www.wago.com/232-870_039-000



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

WAGO Corporation
Germantown, WI 53022
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Dimensions in mm

$L = (\text{pole no.} - 1) \times \text{pin spacing} + 5.08 \text{ mm}$

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!



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) $\hat{=}$ 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) | 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 |

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

Connection 1

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

Physical data

| | |
|--------------------------------------|--------------------------|
| Pin spacing | 7.62 mm / 0.3 inch |
| Width | 89.46 mm / 3.522 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 | locking lever |

PCB contact

| | |
|------------------------|--|
| PCB Contact | THT |
| Solder pin arrangement | over the entire female 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 | Copper alloy |
| Contact plating | tin-plated |
| Fire load | 0.239 MJ |
| Weight | 12 g |

Environmental requirements


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

Commercial data

| | |
|-----------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| PU (SPU) | 25 Stück |
| Packaging type | box |
| Country of origin | DE |
| GTIN | 4044918626545 |
| Customs tariff number | 85366990990 |

Approvals / Certificates

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|---|--------------------------|---------------------------|
|  | ABS American Bureau of Shipping | - | 19- HG15869876- PDA |
| | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAE000016Z |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | UR Underwriters Laboratories Inc. | UL 1977 | E45171 |

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



UR

Underwriters Laboratories Inc.

UL 1059

E45172

Counterpart



Item no. 731-640

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 7.62 mm; 10-pole; 2,50 mm²; orange

www.wago.com/731-640

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

Downloads

Documentation

Additional Information

Technical explanations

2019 Apr 3

pdf
2.0 MB

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CAD files

CAE data

EPLAN Data Portal 232-870/039-000

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PCB Design

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Symbol and Footprint 232-870/039-000

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

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 232-870/039-000

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THT female header; angled; Pin spacing 7.62 mm; 10-pole; Locking lever; 0.6 x 1.0 mm solder pin; orange

Installation Notes

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Product family

MCS MIDI Classic

[Show all products from the family](#)

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