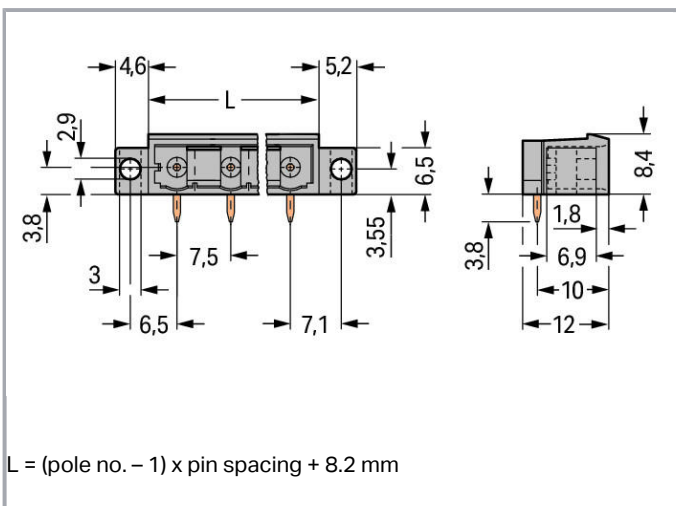
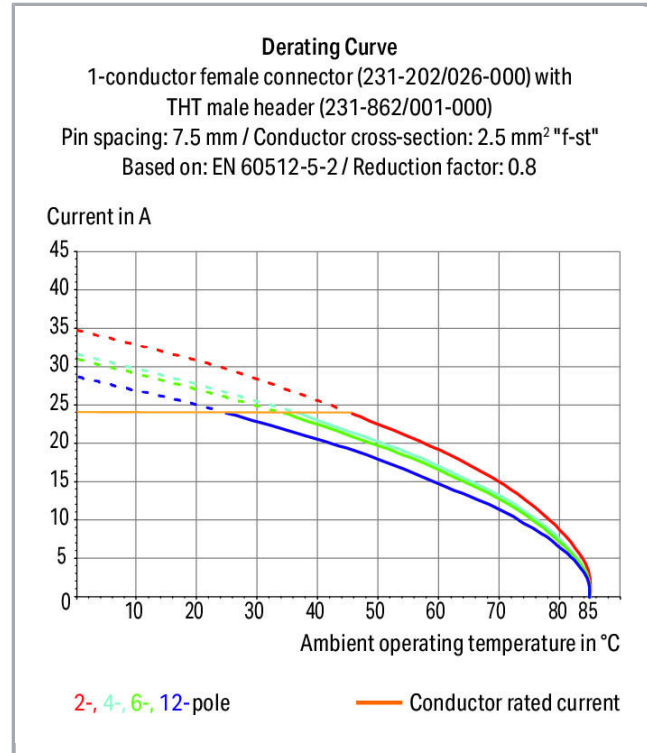
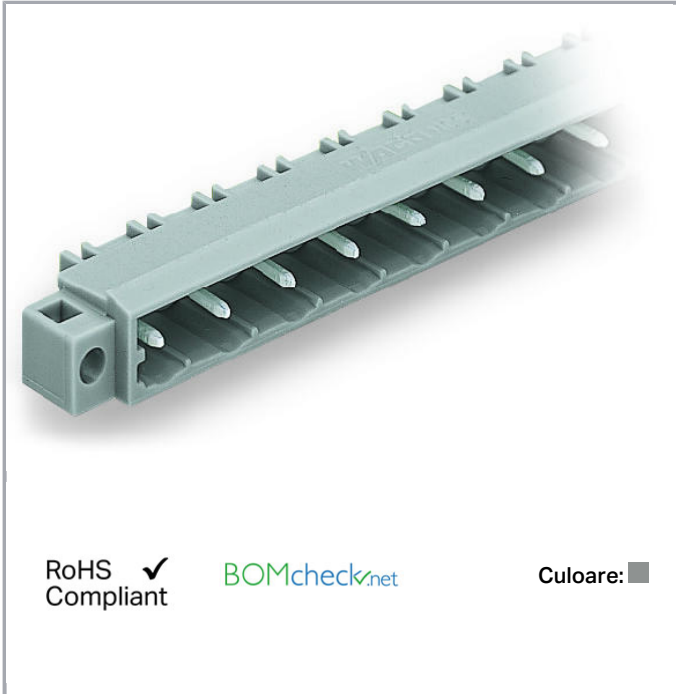


## Fișă tehnică | Număr articol: 231-870/040-000

THT male header; 1.2 x 1.2 mm solder pin; angled; clamping collar; Pin spacing 7.5 mm; 10-pole; gray

[www.wago.com/231-870/040-000](http://www.wago.com/231-870/040-000)



### Descriere articol

—  
Supus modificărilor.

WAGO Kontakttechnik GmbH & Co. KG  
/Representative Office Romania  
Sos. Pipera-Tunari nr. 1/1  
building 1, 2nd floor | 077190 Voluntari, Ilfov  
Tel.: +40-(0)31 421 85 68 | Email: info-RO@wago.com

Aveți întrebări despre produsele noastre?  
Vă stăm la dispoziție pentru preluarea apelului la +40 (0) 31 421 85 68.



- Horizontal or vertical PCB mounting via straight or angled solder pins
- 1.2 x 1.2 mm solder pins allow nominal current up to 16 A, enhancing stability of shorter headers
- With coding fingers

**Safety information 1:**

The *MULTI CONNECTION SYSTEM (MCS)* is designed without breaking capacity for compliance with DIN EN 61984. When used as intended, MCS Connectors shall 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.

**Date****Electrical data****Ratings per IEC/EN 60664-1**

| Ratings per                 | IEC/EN 60664-1  |
|-----------------------------|---|
| Nominal 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               | 16 A  |
| Legend (ratings)            | (III / 2) ≙ Overvoltage category III / Pollution degree 2 |

**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    |
| Approvals per                  | UL 1059 |

**Approvals per UL 1977**

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

**Approvals per CSA**

|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |
| Rated current CSA (Use Group B) | 15 A  |

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|                                 |       |
|---------------------------------|-------|
| Rated voltage CSA (Use Group D) | 300 V |
| Rated current CSA (Use Group D) | 10 A  |

**Connection data**

|                            |    |
|----------------------------|----|
| Pole No.                   | 10 |
| Total number of potentials | 10 |
| Number of connection types | 1  |
| Number of levels           | 1  |

**Geometrical Data**

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 7.5 mm / 0.295 inch      |
| Width                                | 75.7 mm / 2.98 inch      |
| Height                               | 12.2 mm / 0.48 inch      |
| Height from the surface              | 8.4 mm / 0.331 inch      |
| Depth                                | 12 mm / 0.472 inch       |
| Solder pin length                    | 3,8mm                    |
| Solder pin dimensions                | 1.2 x 1.2 mm             |
| Drilled hole diameter with tolerance | 1.7 <sup>(+0.1)</sup> mm |

**Mechanical data**

|               |   |
|---------------|---|
| Mounting type | Mounting flange                         |
| Mounting type | Feed-through mounting<br>Panel mounting |

**Plug connection**

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCBs            |
| Mismatching protection             | No                  |
| 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                                       |

Supus modificărilor.

## Material Data

|                             |  |
|-----------------------------|--|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulation material         | Polyamide 66 (PA 66)                   |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0,087 MJ                               |
| Weight                      | 4,8 g                                  |

## Environmental Requirements



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

## Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| Packaging type        | BOX                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918932288          |
| Customs tariff number | 85366990990            |

## Aprobări / certificate

### Country specific Approvals

| Emblemă  | Aprobare                              | Text de aprobare suplimentar | Nume certificat |
|--|---------------------------------------|------------------------------|-----------------|
|  | CSA<br>DEKRA Certification B.V.       | C22.2                        | 1466354         |
|  | KEMA/KEUR<br>DEKRA Certification B.V. | EN 61984                     | 2190761.01      |

### Ship Approvals

| Emblemă | Aprobare | Text de aprobare suplimentar | Nume certificat |
|---------|----------|------------------------------|-----------------|
|         | ABS      | -                            | 19-             |



Supus modificărilor.



American Bureau of Shipping

HG1869876-PDA

## UL-Approvals

| Emblemă  | Aprobare                             | Text de aprobare suplimentar | Nume certificat |
|--|--------------------------------------|------------------------------|-----------------|
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                      | E45172          |
|  | UR<br>Underwriters Laboratories Inc. | UL 1977                      | 20150318-E45171 |

## Counterpart



Nr. articol 231-210/026-000

1-conductor female plug; 2.5 mm<sup>2</sup>; Pin spacing 7.5 mm; 10-pole; 2,50 mm<sup>2</sup>; gray[www.wago.com/231-210/026-000](http://www.wago.com/231-210/026-000)

## Produse compatibile

## Coding



Nr. articol: 231-130

Coding key; snap-on type; light gray

[www.wago.com/231-130](http://www.wago.com/231-130)

Nr. articol: 231-500

Spacer; for formation of groups; light gray

[www.wago.com/231-500](http://www.wago.com/231-500)

## assembling



Nr. articol: 209-147

Self-tapping screw

[www.wago.com/209-147](http://www.wago.com/209-147)

Nr. articol: 231-194

Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

[www.wago.com/231-194](http://www.wago.com/231-194)

Nr. articol: 231-195

Screw with nut; M2x12; for fixing element

[www.wago.com/231-195](http://www.wago.com/231-195)

Nr. articol: 231-295

Screw with nut

[www.wago.com/231-295](http://www.wago.com/231-295)

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### Marking accessories

|  |  |  |
|--|--|--|
|  | <b>Nr. articol: 210-833</b><br>Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white | <a href="http://www.wago.com/210-833">www.wago.com/210-833</a> |
|  | <b>Nr. articol: 210-834</b><br>Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white | <a href="http://www.wago.com/210-834">www.wago.com/210-834</a> |

### Descărcări

#### Documentation

##### Additional Information

|                        |             |               |            |
|------------------------|-------------|---------------|------------|
| Technical explanations | Apr 3, 2019 | pdf<br>3,6 MB | Descărcare |
|------------------------|-------------|---------------|------------|

### CAD/CAE-Data

#### CAE data

|                                   |     |            |
|-----------------------------------|-----|------------|
| EPLAN Data Portal 231-870/040-000 | URL | Descărcare |
|-----------------------------------|-----|------------|

#### PCB Design

|                                      |     |            |
|--------------------------------------|-----|------------|
| Symbol and Footprint 231-870/040-000 | URL | Descărcare |
|--------------------------------------|-----|------------|

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

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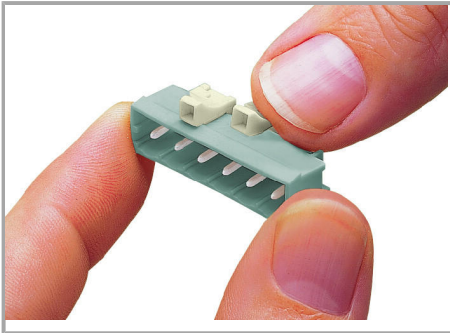
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

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## Installation Notes

### Coding



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

## Familie de produse

*MCS* MIDI Classic

Afișare globală produse din familie.

Supus modificărilor.

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