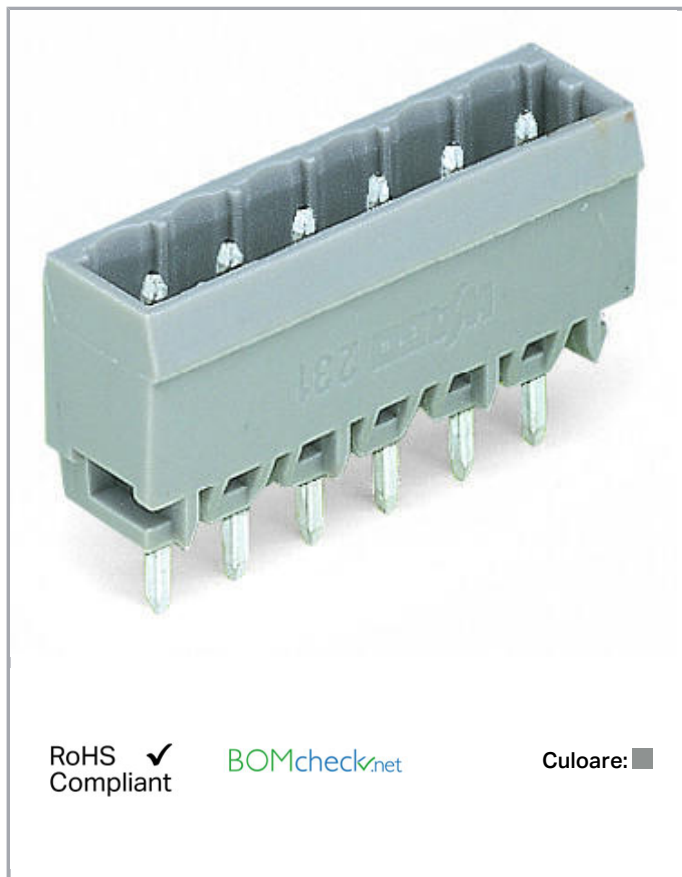


## Fișă tehnică | Număr articol: 231-137/001-000

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 7-pole; gray

[www.wago.com/231-137/001-000](http://www.wago.com/231-137/001-000)



RoHS  
Compliant

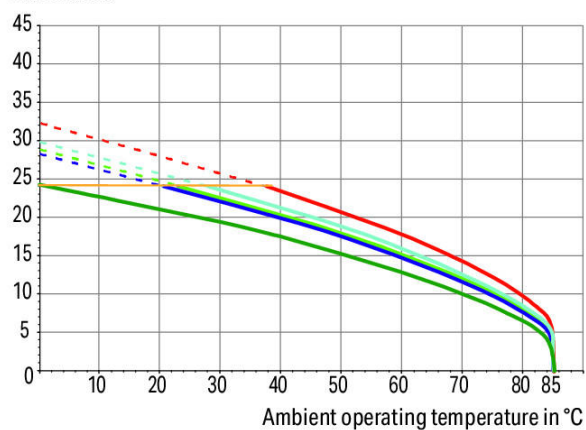
BOMcheck.net

Culoare: ■

### Derating Curve

1-conductor female connector (231-102/026-000) with  
THT male header (231-462/001-000)  
Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"  
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



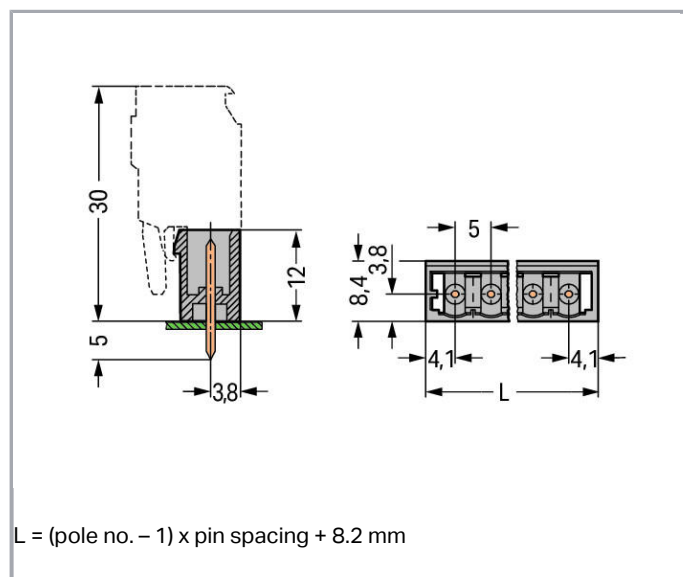
2-, 4-, 6-, 12-, 24- pole

Conductor rated current

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## Descriere articol

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- 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)     | 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           |

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Legend (ratings)

(III / 2)  $\triangleq$  Overvoltage category III / Pollution degree 2

### 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    |
| Approvals per                  | UL 1059 |

### Approvals per UL 1977

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

### 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

|                            |   |
|----------------------------|---|
| Pole No.                   | 7 |
| Total number of potentials | 7 |
| Number of connection types | 1 |
| Number of levels           | 1 |

### Geometrical Data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5 mm / 0.197 inch        |
| Width                                | 38.2 mm / 1.504 inch     |
| Height                               | 17 mm / 0.669 inch       |
| Height from the surface              | 12 mm / 0.472 inch       |
| Depth                                | 8.4 mm / 0.331 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 |

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## Plug connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCBs            |
| Mismating protection               | No                  |
| Mating direction to the PCB        | 90°                 |

## PCB contact

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

## 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                   | 0,039 MJ                               |
| Weight                      | 2,2 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                  | 4044918863339          |
| Customs tariff number | 85366990990            |

## Aprobări / certificate

### Country specific Approvals

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

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CSA  
DEKRA Certification B.V.

C22.2

LR  
18677-  
25

### Ship Approvals

| Emblemă                                                                          | Aprobare                                                | Text de aprobare suplimentar | Nume certificat          |
|----------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|--------------------------|
|  | <b>ABS</b><br>American Bureau of Shipping               | -                            | 19-<br>HG1869876-<br>PDA |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                            | TAE000016Z               |

### UL-Approvals

| Emblemă                                                                            | Aprobare                                    | Text de aprobare suplimentar | Nume certificat     |
|------------------------------------------------------------------------------------|---------------------------------------------|------------------------------|---------------------|
|   | <b>UL</b><br>Underwriters Laboratories Inc. | UL 1059                      | 20190731-<br>E45172 |
|  | <b>UR</b><br>UL International Germany GmbH  | UL 1977                      | E45171              |

### Counterpart



**Nr. articol**231-107/026-000

1-conductor female plug; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 7-pole; 2,50 mm<sup>2</sup>; gray

[www.wago.com/231-107/026-000](http://www.wago.com/231-107/026-000)



**Nr. articol**231-2107/026-000

2-conductor female connector; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 7-pole; 2,50 mm<sup>2</sup>; gray

[www.wago.com/231-2107/026-000](http://www.wago.com/231-2107/026-000)



**Nr. articol**231-2107/037-000

2-conductor female connector; Locking lever; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 7-pole; 2,50 mm<sup>2</sup>; gray

[www.wago.com/231-2107/037-000](http://www.wago.com/231-2107/037-000)



**Nr. articol**2231-107/026-000

1-conductor female plug; push-button; 2.5 mm<sup>2</sup>; Pin spacing 5 mm; 7-pole; 2,50 mm<sup>2</sup>; gray

[www.wago.com/2231-107/026-000](http://www.wago.com/2231-107/026-000)



**Nr. articol**2231-107/031-000

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Aveți întrebări despre produsele noastre?  
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|                                                                                  |                                                                                                                                                                                          |                                                                                                |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|                                                                                  | 1-conductor female plug; push-button; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                                                       | <a href="http://www.wago.com/2231-107/031-000">www.wago.com/2231-107/031-000</a>               |
|  | <b>Nr. articol</b> 231-107/037-000<br>1-conductor female plug; push-button; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                   | <a href="http://www.wago.com/2231-107/037-000">www.wago.com/2231-107/037-000</a>               |
|  | <b>Nr. articol</b> 231-107/027-000<br>1-conductor female plug; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                              | <a href="http://www.wago.com/231-107/027-000">www.wago.com/231-107/027-000</a>                 |
|  | <b>Nr. articol</b> 231-107/102-000<br>1-conductor female plug; push-button; with integrated end plate; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray       | <a href="http://www.wago.com/2231-107/102-000">www.wago.com/2231-107/102-000</a>               |
|  | <b>Nr. articol</b> 231-107/031-000/034-000<br>1-conductor female plug; clamping collar; Strain relief plate; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray | <a href="http://www.wago.com/231-107/031-000/034-000">www.wago.com/231-107/031-000/034-000</a> |
|  | <b>Nr. articol</b> 231-107/031-000<br>1-conductor female plug; clamping collar; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                              | <a href="http://www.wago.com/231-107/031-000">www.wago.com/231-107/031-000</a>                 |
|  | <b>Nr. articol</b> 232-107/026-000<br>1-conductor female plug; angled; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                                       | <a href="http://www.wago.com/232-107/026-000">www.wago.com/232-107/026-000</a>                 |
|  | <b>Nr. articol</b> 231-107/037-000<br>1-conductor female plug; Locking lever; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                                | <a href="http://www.wago.com/231-107/037-000">www.wago.com/231-107/037-000</a>                 |
|  | <b>Nr. articol</b> 231-107/102-000<br>1-conductor female plug; with integrated end plate; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                    | <a href="http://www.wago.com/231-107/102-000">www.wago.com/231-107/102-000</a>                 |
|  | <b>Nr. articol</b> 232-207/026-000<br>1-conductor female plug; angled; 2.5 mm <sup>2</sup> ; Pin spacing 5 mm; 7-pole; 2,50 mm <sup>2</sup> ; gray                                       | <a href="http://www.wago.com/232-207/026-000">www.wago.com/232-207/026-000</a>                 |

## Produse compatibile

### Coding

|                                                                                    |                                                                            |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------|
|  | <b>Nr. articol:</b> 231-129<br>Coding key; snap-on type; light gray        | <a href="http://www.wago.com/231-129">www.wago.com/231-129</a> |
|  | <b>Nr. articol:</b> 231-500<br>Spacer; for formation of groups; light gray | <a href="http://www.wago.com/231-500">www.wago.com/231-500</a> |

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## Marking accessories

**Nr. articol: 210-833**

Marking strips; on reel; 6 mm wide; plain; Self-adhesive; white

[www.wago.com/210-833](http://www.wago.com/210-833)**Nr. articol: 210-834**

Marking strips; on reel; 5 mm wide; plain; Self-adhesive; white

[www.wago.com/210-834](http://www.wago.com/210-834)

## Descărcări

## Documentation

## Additional Information

Technical explanations

Apr 3, 2019

pdf  
3,6 MB

Descărcare

## CAD/CAE-Data

## CAD data

2D/3D Models 231-137/001-000

URL

Descărcare

## CAE data

EPLAN Data Portal 231-137/001-000

URL

Descărcare

## PCB Design

Symbol and Footprint 231-137/001-000

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

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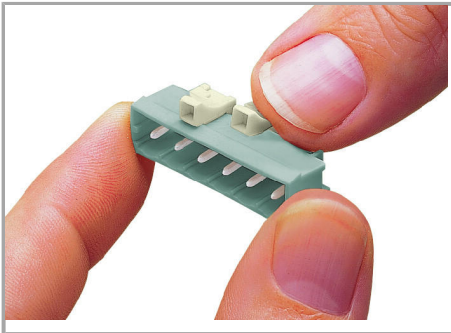
- PADS PowerPCB and PowerLogic 3.0
- PCAD 2000, 2001, 2002, 2004, and 2006
- Pulsonix 8.5 or newer
- STL
- 3D STEP
- TARGET 3001!
- View Logic ViewDraw
- Quadcept
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

---

## Installation Notes

### Coding



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

## Familie de produse

**<i>MCS</i> MIDI Classic**

Afișare globală produse din familie.

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