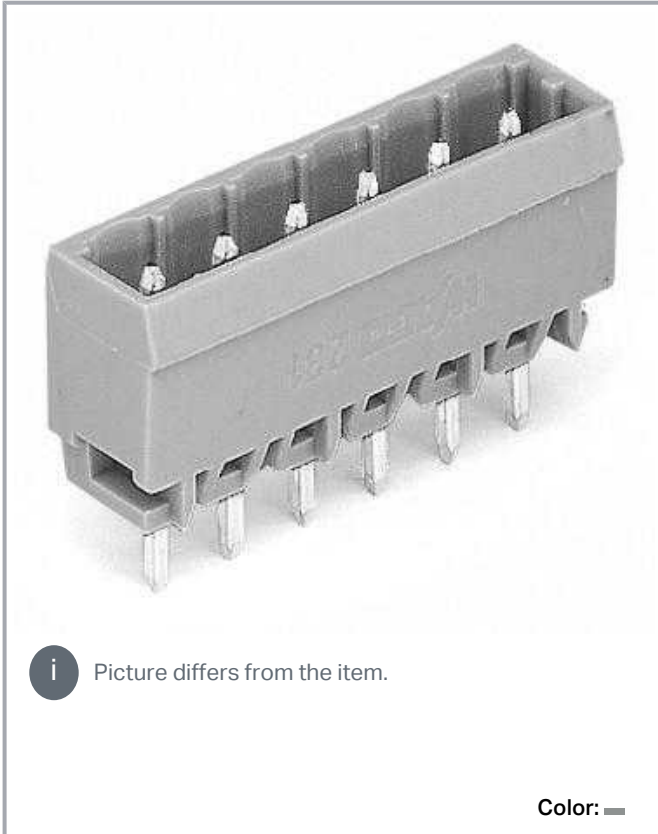


**Data sheet | Item number: 231-153/001-000**

Male header; 23-pole; THT; 1.0 x 1.0 mm solder pin; straight; pin spacing 5 mm; gray

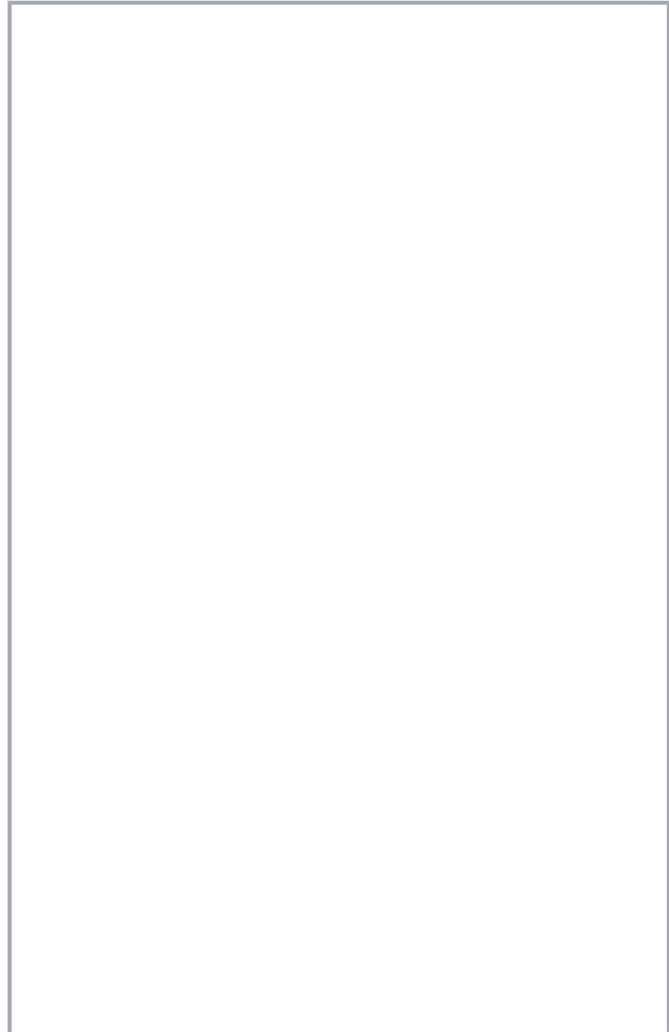


[www.wago.com/231-153\\_001-000](http://www.wago.com/231-153_001-000)



**i** Picture differs from the item.

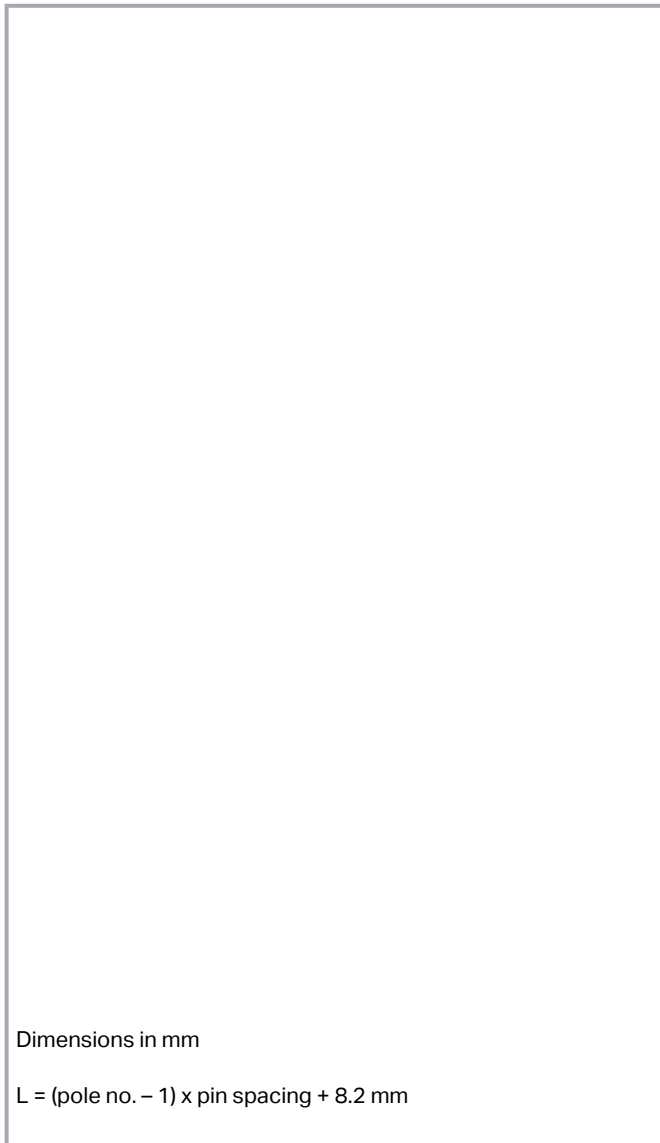
Color: —



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

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Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

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## Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- Pin cross-section: 1 x 1 mm
- With coding fingers

## Data

### Notes

Safety information 1

The *MCS – MULTI CONNECTION SYSTEM* includes connectors

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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)     | 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   |
| Legend (ratings)            | (III / 2) $\triangleq$ 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) | 10 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 | 10 A  |

### CSA Approvals

| Approvals per                   | CSA   |
|---------------------------------|-------|
| Rated voltage CSA (Use Group B) | 300 V |

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|                                 |       |
|---------------------------------|-------|
| 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

|                            |    |
|----------------------------|----|
| Total number of potentials | 23 |
| Number of connection types | 1  |
| Number of levels           | 1  |

### Connection 1

|                 |    |
|-----------------|----|
| Number of poles | 23 |
|-----------------|----|

### Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5 mm / 0.197 inch        |
| Width                                | 118.2 mm / 4.654 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 |

### Plug-in connection

|                                    |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCB             |
| Mismating protection               | No                  |
| Mating direction to the PCB        | 90°                 |
| Locking of plug-in connection      | Without             |

### PCB contact

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

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

## Material data

|                             |  |
|-----------------------------|--|
| Color                       | gray                                   |
| Material group              | I                                      |
| Insulation material         | Polyamide (PA66)                       |
| Flammability class per UL94 | V0                                     |
| Contact material            | Electrolytic copper (E <sub>Cu</sub> ) |
| Contact plating             | tin-plated                             |
| Fire load                   | 0.124 MJ                               |
| Weight                      | 7.1 g                                  |

## Environmental requirements


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

## Commercial data

|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 50 Stück               |
| Packaging type        | box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918864350          |
| Customs tariff number | 8536694040             |

## Approvals / Certificates

### Country specific Approvals


| Logo   | Approval                               | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | <b>CB</b><br>DEKRA Certification B.V.  | IEC 61984                | NL-39756         |
|  | <b>CSA</b><br>DEKRA Certification B.V. | C22.2                    | 1466354          |

### Ship Approvals



| Logo | Approval                                  | Additional Approval Text | Certificate name  |
|------|---|--------------------------|-------------------|
|      | <b>ABS</b><br>American Bureau of Shipping | -                        | 19-<br>HG1869876- |

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









|   |   |           |                |
|---|---|-----------|----------------|
|  | <b>BV</b><br>Bureau Veritas S.A.                        | IEC 60998 | 11915/DO<br>BV |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -         | TAE000016Z     |

**UL-Approvals**

| Logo   | Approval                                    | Additional Approval Text | Certificate name |
|--|---|--------------------------|------------------|
|  | <b>UL</b><br>Underwriters Laboratories Inc. | UL 1059                  | E45172           |
|  | <b>UR</b><br>Underwriters Laboratories Inc. | UL 1977                  | E45171           |

**Counterpart**

|  |   |  |
|--|---|--|
|  | <b>Item no.231-123/026-000</b><br>Female plug; 23-pole; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray  | <a href="http://www.wago.com/231-123/026-000">www.wago.com/231-123/026-000</a>   |
|  | <b>Item no.2231-123/026-000</b><br>Female plug; 23-pole; push-button; 12 AWG max; pin spacing 5 mm; 1-conductor per pole; gray                            | <a href="http://www.wago.com/2231-123/026-000">www.wago.com/2231-123/026-000</a> |
|  | <b>Item no.2231-123/037-000</b><br>Female plug; 23-pole; push-button; locking lever; 12 AWG max; pin spacing 5 mm; 1-conductor per pole; gray             | <a href="http://www.wago.com/2231-123/037-000">www.wago.com/2231-123/037-000</a> |
|  | <b>Item no.2231-123/031-000</b><br>Female plug; 23-pole; push-button; mounting flange; 12 AWG max; pin spacing 5 mm; 1-conductor per pole; gray           | <a href="http://www.wago.com/2231-123/031-000">www.wago.com/2231-123/031-000</a> |
|  | <b>Item no.2231-123/102-000</b><br>Female plug; 23-pole; push-button; with integrated end plate; 12 AWG max; pin spacing 5 mm; 1-conductor per pole; gray | <a href="http://www.wago.com/2231-123/102-000">www.wago.com/2231-123/102-000</a> |
|  | <b>Item no.231-123/027-000</b><br>Female plug; 23-pole; mounting flange with reinforcing strip; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray  | <a href="http://www.wago.com/231-123/027-000">www.wago.com/231-123/027-000</a>   |

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



**Item no.231-123/102-000**

Female plug; 23-pole; with integrated end plate; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray

[www.wago.com/231-123/102-000](http://www.wago.com/231-123/102-000)

**Item no.231-123/031-000**

Female plug; 23-pole; mounting flange; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray

[www.wago.com/231-123/031-000](http://www.wago.com/231-123/031-000)



**Item no.232-223/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 23-pole; 2,50 mm²; gray

[www.wago.com/232-223/026-000](http://www.wago.com/232-223/026-000)



**Item no.231-123/037-000**

Female plug; 23-pole; locking lever; 12 AWG max; pin spacing 5 mm; 1 conductor per pole; gray

[www.wago.com/231-123/037-000](http://www.wago.com/231-123/037-000)



**Item no.232-123/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 23-pole; 2,50 mm²; gray

[www.wago.com/232-123/026-000](http://www.wago.com/232-123/026-000)

**Optional accessories**

**Coding**

Intermediate plate



**Item no.: 231-500**

Spacer; for formation of groups; light gray

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

Coding



**Item no.: 231-129**

Coding key; snap-on type; light gray

[www.wago.com/231-129](http://www.wago.com/231-129)

**Downloads**

**Documentation**

**Additional Information**

|                        |            |               |          |
|------------------------|------------|---------------|----------|
| Technical explanations | 2019 Apr 3 | pdf<br>2.0 MB | Download |
|------------------------|------------|---------------|----------|

**CAD files**

**CAD data**

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 231-153/001-000 | URL | Download |
|------------------------------|-----|----------|

**CAE data**

|                                   |     |          |
|-----------------------------------|-----|----------|
| EPLAN Data Portal 231-153/001-000 | URL | Download |
|-----------------------------------|-----|----------|

|                              |     |          |
|------------------------------|-----|----------|
| ZUKEN Portal 231-153/001-000 | URL | Download |
|------------------------------|-----|----------|

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|                                   |                     |                          |
|-----------------------------------|---------------------|--------------------------|
| EPLAN Data Portal 231-153/001-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|-----------------------------------|---------------------|--------------------------|

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### PCB Design

|                                      |                     |                          |
|--------------------------------------|---------------------|--------------------------|
| Symbol and Footprint 231-153/001-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|--------------------------------------|---------------------|--------------------------|

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

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## Environmental Product Compliance

### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 231-153/001-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|--|---------------------|--------------------------|

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5 mm; 23-pole; gray

---

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

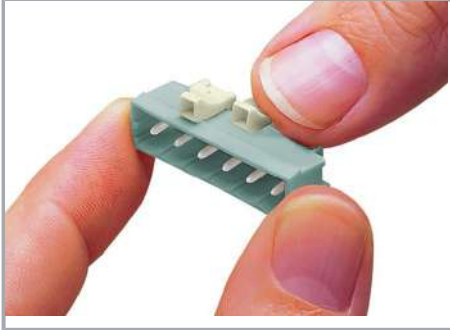
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## Installation Notes



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

## Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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