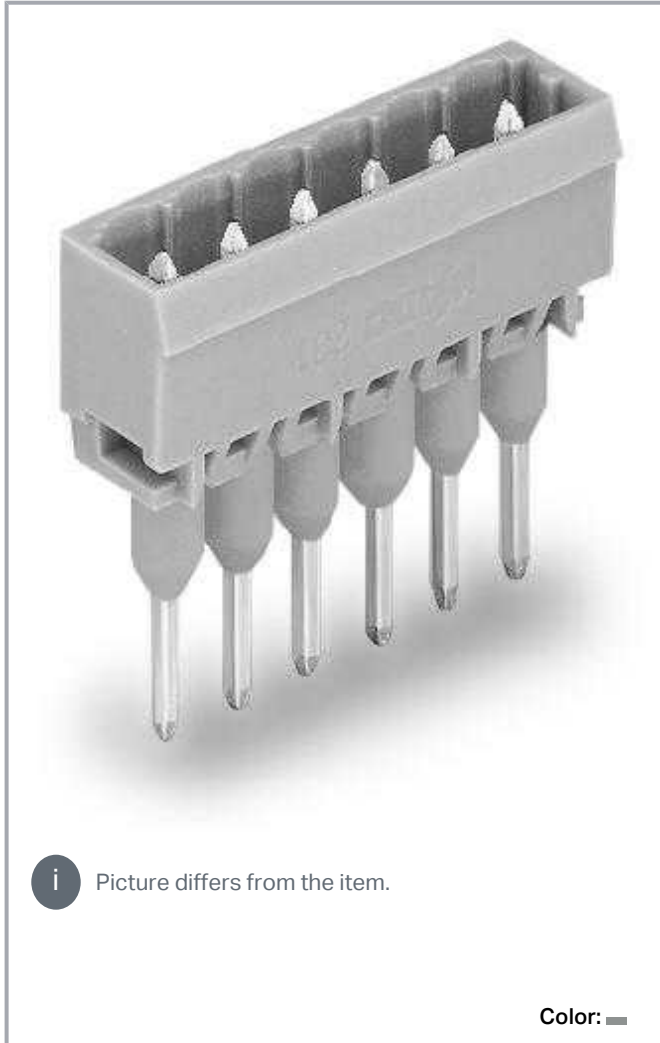


Data sheet | Item number: 231-165/003-000

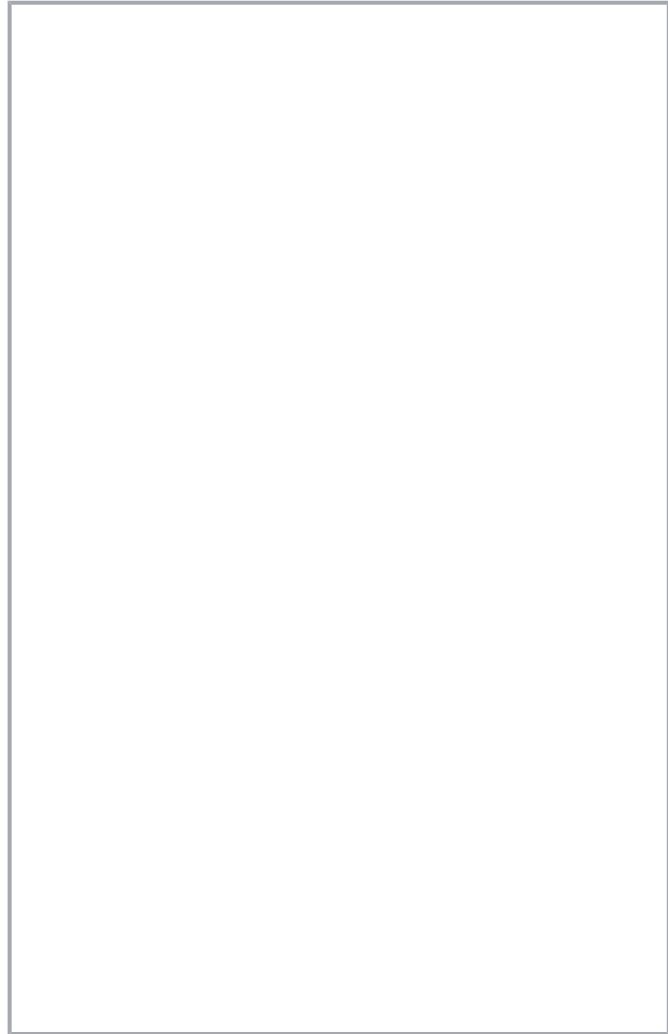
Male header; 5-pole; THT; 1.2 x 1.2 mm pin; straight; pin spacing 5 mm; gray

[www.wago.com/231-165\\_003-000](http://www.wago.com/231-165_003-000)



**i** Picture differs from the item.

Color:



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

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## Item description

- Pluggable connectors for rail-mount terminal blocks equipped with CAGE CLAMP® connection
- Male connectors with long contact pins connect to the termination ports of 280 Series Rail-Mount Terminal Blocks
- Pins can be touched when the connector is unplugged, so power supply should be performed via terminal block (observe rated voltage!)
- With coding fingers

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

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## 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

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)     | 250 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               | 16 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 | 5 |
| Number of connection types | 1 |
| Number of levels           | 1 |

## Connection 1

|                 |   |
|-----------------|---|
| Number of poles | 5 |
|-----------------|---|

## Physical data

|                         |                     |
|-------------------------|---------------------|
| Pin spacing             | 5 mm / 0.197 inch   |
| Width                   | 28.2 mm / 1.11 inch |
| Height                  | 25.9 mm / 1.02 inch |
| Height from the surface | 12 mm / 0.472 inch  |
| Depth                   | 8.4 mm / 0.331 inch |

## Plug-in connection

|                                    |   |
|------------------------------------|---|
| Contact type (pluggable connector) | Male connector/plug                       |
| Connector (connection type)        | for front-entry rail-mount terminal block |
| Mismating protection               | No  |
| Locking of plug-in connection      | Without                                   |

## 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                             |

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|           |          |
|-----------|----------|
| Fire load | 0.042 MJ |
| Weight    | 2.9 g    |

### Environmental requirements


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

### Commercial data



|                       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| PU (SPU)              | 200 Stück              |
| Packaging type        | box                    |
| Country of origin     | DE                     |
| GTIN                  | 4044918905206          |
| Customs tariff number | 85366990990            |

### 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                    | LR 18677-25      |

#### Ship Approvals

| Logo  | Approval  | Additional Approval Text | Certificate name |
|---|---|--------------------------|------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-HG1869876-PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | IEC 60998                | 11915/D0<br>BV   |
|   | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE000016Z       |



#### UL-Approvals

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

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

### Counterpart



Item no.231-105/026-000

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

[www.wago.com/231-105/026-000](http://www.wago.com/231-105/026-000)

### 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 231-165/003-000 | URL | Download |
|------------------------------|-----|----------|

#### CAE data

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

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|                                   |                     |                          |
|-----------------------------------|---------------------|--------------------------|
| EPLAN Data Portal 231-165/003-000 | <a href="#">URL</a> | <a href="#">Download</a> |
| ZUKEN Portal 231-165/003-000      | <a href="#">URL</a> | <a href="#">Download</a> |
| EPLAN Data Portal 231-165/003-000 | <a href="#">URL</a> | <a href="#">Download</a> |

## Environmental Product Compliance

### Compliance Search

|  |                     |                          |
|--|---------------------|--------------------------|
| Environmental Product Compliance 231-165/003-000   | <a href="#">URL</a> | <a href="#">Download</a> |
| Male connector for rail-mount terminal blocks; 1.2 x 1.2 mm pins; straight; Pin spacing 5 mm; 5-pole; gray |                     |                          |

## Installation Notes



Inserting a male connector via multipole operating tool.

## Installation

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The extra width of the male connectors when used on front-entry, rail-mount terminal blocks must be compensated for by either two intermediate plates or rail-mount spacer block (block assembly).

#### Installation



Spacer blocks can be bridged via alternate or staggered jumpers.

#### Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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