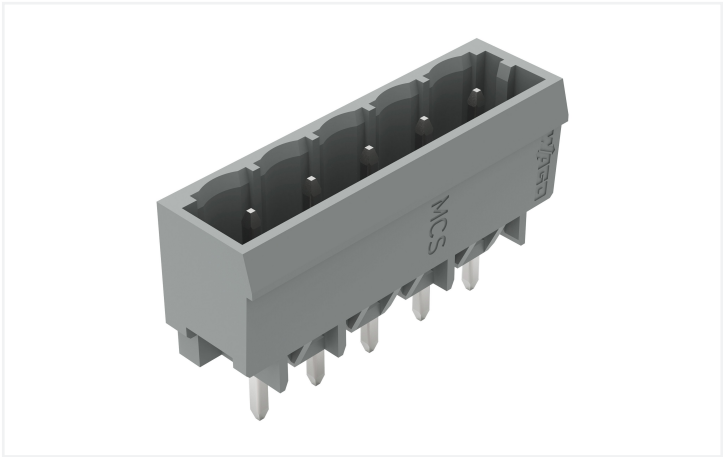
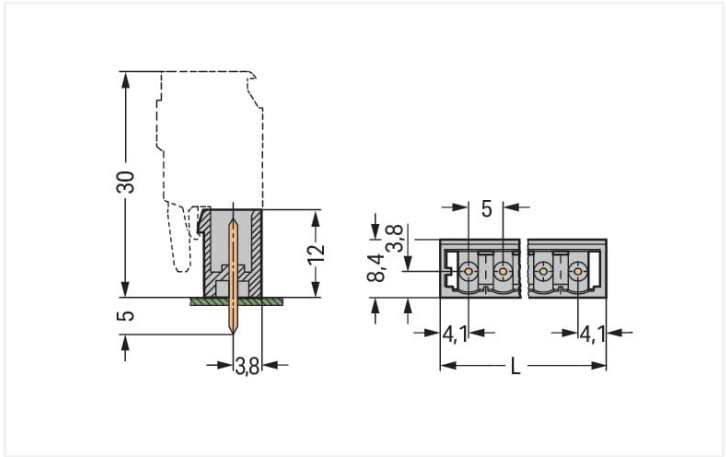
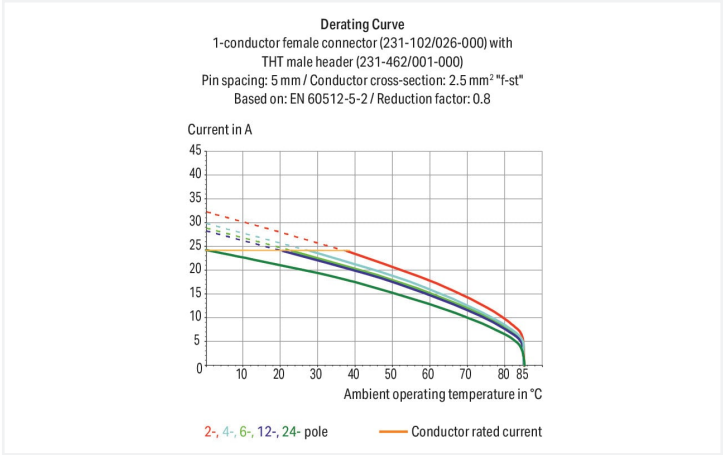




Color: ■ gray



Dimensions in mm  
L = (pole no. – 1) x pin spacing + 8.2 mm



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

Notes

Safety information

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/>.

Variants:

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. 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.

| Electrical data      |  |                |       |       |               |               |
|----------------------|--|----------------|-------|-------|---------------|---------------|
| Ratings per          |  | IEC/EN 60664-1 |       |       | Approvals per |               |
|                      |  |                |       |       | UL 1059       |               |
| Overvoltage category |  | III            | III   | II    | Use group     | B C D         |
| Pollution degree     |  | 3              | 2     | 2     | Rated voltage | 300 V - 300 V |
| Nominal voltage      |  | 320 V          | 320 V | 630 V | Rated current | 10 A - 10 A   |
| Rated surge voltage  |  | 4 kV           | 4 kV  | 4 kV  |               |               |
| Rated current        |  | 12 A           | 12 A  | 12 A  |               |               |



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

| Approvals per |  | CSA   |   |       |
|---------------|--|-------|---|-------|
| Use group     |  | B     | C | D     |
| Rated voltage |  | 300 V | - | 300 V |
| Rated current |  | 10 A  | - | 10 A  |

| Connection data            |   |              |   |  |
|----------------------------|---|--------------|---|--|
| Total number of potentials | 5 | Connection 1 |   |  |
| Number of connection types | 1 | Pole number  | 5 |  |
| Number of levels           | 1 |              |   |  |

| Physical data                        |                       |
|--------------------------------------|-----------------------|
| Pin spacing                          | 5 mm / 0.197 inches   |
| Width                                | 28.2 mm / 1.11 inches |
| Height                               | 17 mm / 0.669 inches  |
| Height from the surface              | 12 mm / 0.472 inches  |
| Depth                                | 8.4 mm / 0.331 inches |
| Solder pin length                    | 5 mm                  |
| Solder pin dimensions                | 1 x 1 mm              |
| Drilled hole diameter with tolerance | 1.4 (+0.1) mm         |

| Mechanical data          |     |
|--------------------------|-----|
| Variable coding          | Yes |
| Anti-rotation protection | Yes |

| Plug-in connection                 |                     |
|------------------------------------|---------------------|
| Contact type (pluggable connector) | Male connector/plug |
| Connector (connection type)        | for PCB             |
| 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               |                                                                          |
|-----------------------------|--------------------------------------------------------------------------|
| Note (material data)        | <a href="#">Information on material specifications can be found here</a> |
| 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                                                                      |
| Fire load                   | 0.061 MJ                                                                 |
| Weight                      | 1.7 g                                                                    |



| Environmental requirements |                 |
|----------------------------|-----------------|
| Limit temperature range    | -60 ... +100 °C |
| Processing temperature     | -35 ... +60 °C  |

| Commercial data       |                        |
|-----------------------|------------------------|
| Product Group         | 3 (Multi Conn. System) |
| eCl@ss 10.0           | 27-44-04-02            |
| eCl@ss 9.0            | 27-44-04-02            |
| ETIM 8.0              | EC002637               |
| ETIM 7.0              | EC002637               |
| PU (SPU)              | 200 pcs                |
| Packaging type        | Box                    |
| Country of origin     | PL                     |
| GTIN                  | 4044918863155          |
| Customs tariff number | 85366930000            |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

Approvals / Certificates

| General approvals                                                                  |           |                  | Declarations of conformity and manufacturer's declarations                          |          |                  |
|------------------------------------------------------------------------------------|-----------|------------------|-------------------------------------------------------------------------------------|----------|------------------|
|  |           |                  |  |          |                  |
| Approval                                                                           | Standard  | Certificate Name | Approval                                                                            | Standard | Certificate Name |
| CB<br>DEKRA Certification B.V.                                                     | IEC 61984 | NL-39756/A1      | Railway<br>WAGO GmbH & Co. KG                                                       | -        | Railway Ready    |
| CSA<br>DEKRA Certification B.V.                                                    | C22.2     | LR 18677-25      |                                                                                     |          |                  |
| KEMA/KEUR<br>DEKRA Certification B.V.                                              | EN 61984  | 71-121453        |                                                                                     |          |                  |
| UL<br>Underwriters Laboratories Inc.                                               | UL 1059   | E45172           |                                                                                     |          |                  |
| UR<br>Underwriters Laboratories Inc.                                               | UL 1977   | E45171           |                                                                                     |          |                  |

Approvals for marine applications

|  |           |                  |
|------------------------------------------------------------------------------------|-----------|------------------|
| Approval                                                                           | Standard  | Certificate Name |
| ABS<br>American Bureau of Ship-<br>ping                                            | -         | 19-HG1869876-PDA |
| BV<br>Bureau Veritas S.A.                                                          | IEC 60998 | 11915/D0 BV      |
| DNV<br>DNV GL SE                                                                   | -         | TAE000016Z       |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance231-135/001-000

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Documentation

Additional Information

Technical Section03.04.2019pdf2027.26 KB

↓

CAD/CAE-Data

CAD data

2D/3D Models231-135/001-000

↓

CAE data

EPLAN Data Portal231-135/001-000

↓

ZUKEN Portal231-135/001-000

↓

PCB Design

Symbol and Footprint via SamacSys231-135/001-000

↓

Symbol and Footprint via Ultra Librarian231-135/001-000

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1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



**Item No.: 232-105/026-000**  
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



**Item No.: 232-205/026-000**  
1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



**Item No.: 231-105/026-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



**Item No.: 231-105/031-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; clamping collar; 2,50 mm²; gray



**Item No.: 231-105/037-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



**Item No.: 231-105/124-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Snap-in flange; 2,50 mm²; gray



**Item No.: 231-105/102-000**  
1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; with integrated end plate; 2,50 mm²; gray



**Item No.: 2231-1105/327-000**  
1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



**Item No.: 2231-1105/038-000**  
1-conductor female connector; lever; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



**Item No.: 2231-105/026-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; 2,50 mm²; gray



**Item No.: 2231-105/031-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; clamping collar; 2,50 mm²; gray



**Item No.: 2231-105/037-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



1.1.1 Female connector/socket



**Item No.: 2231-105/037-000/134-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; Strain relief plate; 2,50 mm²; gray



**Item No.: 2231-105/026-000/134-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Strain relief plate; 2,50 mm²; gray



**Item No.: 2231-105/102-000**  
1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; with integrated end plate; 2,50 mm²; gray



**Item No.: 231-2105/037-000**  
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; Lateral locking levers; 2,50 mm²; gray



**Item No.: 231-2105/026-000**  
2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 5-pole; with integrated end plate; 2,50 mm²; gray

1.2 Optional Accessories

1.2.1 Coding

1.2.1.1 Coding



**Item No.: 231-129**  
Coding key; snap-on type; light gray

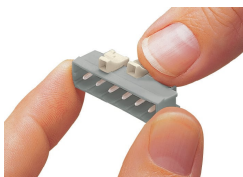
1.2.1.2 Intermediate plate



**Item No.: 231-500**  
Spacer; for formation of groups; light gray

Installation Notes

Coding



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