

Data Sheet | Item Number: 231-365/108-000

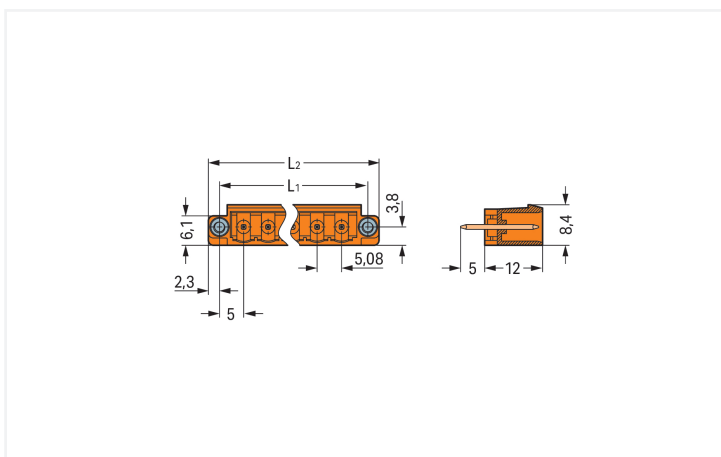
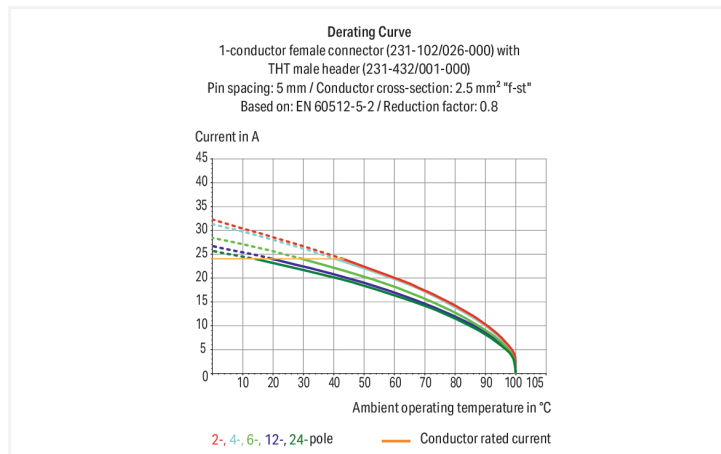
THT male header; 1.2 x 1.2 mm solder pin; straight; Threaded flange; Pin spacing 5.08 mm; 5-pole; orange

<https://www.wago.com/231-365/108-000>



Color: ■ orange

Similar to illustration



Dimensions in mm

$L1 = (\text{pole no.} \times \text{pin spacing}) + 5.4 \text{ mm}$
 $L2 = (\text{pole no.} \times \text{pin spacing}) + 10 \text{ mm}$

Male connector, 231 Series, solder pin dimensions 1.2 x 1.2 mm

Effortless electrical installations are guaranteed with this male connector (item number 231-365/108-000). The dimensions are (35.4 x 17 x 8.4) mm (width x height x depth).

The contact surface is coated with tin. The pcb connector is designed for THT soldering.

Notes

Safety Information

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.

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

| Ratings per | IEC/EN 60664-1 | | |
|---------------------------------|----------------|-------|-------|
| Overvoltage category | III | III | II |
| Pollution degree | 3 | 2 | 2 |
| Nominal voltage | 250 V | 320 V | 630 V |
| Rated impulse withstand voltage | 4 kV | 4 kV | 4 kV |
| Rated current | 16 A | 16 A | 16 A |

| Approvals per | UL 1059 | | |
|---------------|---------|---|-------|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 15 A | - | 10 A |

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

| Approvals per | CSA | | |
|---------------|-------|---|-------|
| Use group | B | C | D |
| Rated voltage | 300 V | - | 300 V |
| Rated current | 15 A | - | 10 A |

Connection Data

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

| Connection 1 | |
|--------------|---|
| Pole number | 5 |

Physical data

| | |
|-------------------------|--------------------------|
| Pin spacing | 5.08 mm / 0.2 inches |
| Width | 35.4 mm / 1.394 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 | 1.2 x 1.2 mm |
| ! | 1.7 ^(+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 ° |
| Locking of plug-in connection | Threaded flange |

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) | Information on material specifications can be found here |
| Color | orange |
| Material group | I |
| Insulation material (main housing) | Polyamide (PA66) |
| Flammability class per UL94 | V0 |
| Contact material | Electrolytic copper (E _{Cu}) |
| Contact Plating | Tin |
| Fire load | 0.042 MJ |
| Weight | 2.7 g |

Environmental requirements

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

Environmental Testing

| | |
|---|---|
| Test specification: Railway applications – Rolling stock – Electronic equipment | DIN EN 50155 (VDE 0115-200):2022-06 |
| Test procedure: Railway applications – Rolling stock equipment – Vibration and shock tests | DIN EN 61373 (VDE 0115-0106):2011-04 |
| Spectrum/Mounting location | Service life test, Category 1, Class A/B |
| Functional test with noise-like oscillations | Test passed according to Section 8 of the standard |
| Frequency | f ₁ = 5 Hz to f ₂ = 150 Hz |
| Acceleration | 0.101g (highest test level used for all axes) |
| Test duration per axis | 10 min. |
| Test directions | X, Y and Z axes |
| Monitoring of contact faults and interruptions | Passed |
| Voltage drop measurement before and after each axis | Passed |
| Simulated service life test through increased levels of noise-like oscillations | Test passed according to Section 9 of the standard |
| Frequency | f ₁ = 5 Hz to f ₂ = 150 Hz |
| Acceleration | 0.572g (highest test level used for all axes) |
| Test duration per axis | 5 h |
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Shock test | Test passed according to Section 10 of the standard |

Environmental Testing

| | |
|---|---|
| Shock pulse form | Half sine |
| Acceleration | 5g (highest test level used for all axes) |
| Shock duration | 30 ms |
| Number of shocks (per axis) | 3 pos. und 3 neg. |
| Test directions | X, Y and Z axes |
| Extended testing: Monitoring of contact faults and interruptions | Passed |
| Extended testing: Voltage drop measurement before and after each axis | Passed |
| Vibration and shock stress for rolling stock equipment | Passed |

Commercial data

| | |
|-----------------------|------------------------|
| Product Group | 3 (Multi Conn. System) |
| PU (SPU) | 100 pcs |
| Packaging type | Box |
| Country of origin | PL |
| GTIN | 4045454845650 |
| Customs tariff number | 85366930000 |

Product Classification

| | |
|-------------|----------------------|
| UNSPSC | 39121409 |
| eCl@ss 10.0 | 27-44-04-02 |
| eCl@ss 9.0 | 27-44-04-02 |
| ETIM 9.0 | EC002637 |
| ETIM 10.0 | EC002637 |
| ECCN | NO US CLASSIFICATION |

Environmental Product Compliance

| | |
|---|--------------------------------------|
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) |
| SCIP notification number (Austria) | e0425b94-7f42-4cbd-87ad-6b58edf5de7b |
| SCIP notification number (Belgium) | 8089753f-0b85-4ff0-ad2f-5e08b15c1f64 |
| SCIP notification number (Bulgaria) | a1bec08d-32bc-4a20-b4c5-ed701483023e |
| SCIP notification number (Czech Republic) | b8ae6017-b252-401f-bfc1-423a40847a03 |
| SCIP notification number (Denmark) | 34ce183d-3c59-4db7-baec-52143dbd7e4d |
| SCIP notification number (Finland) | 6a4b7425-2576-4ee9-a983-51b4753ed982 |
| SCIP notification number (France) | c66b91b4-2e5e-4aab-9776-0f4fa7f20c58 |
| SCIP notification number (Germany) | f101f04c-317d-4c90-b38c-9e8fca0e2df2 |
| SCIP notification number (Hungary) | e3e99ee1-9be1-408d-b1d1-63d542331445 |
| SCIP notification number (Italy) | 9992a5c3-0038-4b01-b5ef-57efdf14cab1 |
| SCIP notification number (Netherlands) | 2645b2f2-f02e-4d7c-b506-2c6f5ea9c27f |
| SCIP notification number (Poland) | b6824de0-ff78-4e11-aa97-eddbf824fcbd |
| SCIP notification number (Romania) | 481d2fde-1556-42c3-9a0e-f1d41f6bd5a3 |
| SCIP notification number (Sweden) | 245a7b9a-2eec-4531-bf1f-508ef55385af |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---------------------------------------|----------|------------------|
| CSA DEKRA Certification B.V. | C22.2 | 1466354 |
| KEMA/KEUR DEKRA Certification B.V. | EN 61984 | 71-130478 REV.1 |
| UR Underwriters Laboratories Inc. | UL 1059 | E45172 |

Declarations of conformity and manufacturer's declarations



| Approval | Standard | Certificate Name |
|-------------------------------|----------|------------------|
| Railway WAGO GmbH & Co. KG | - | Railway Ready |

Downloads

Environmental Product Compliance

| Compliance Search |
|---|
| Environmental Product Compliance 231-365/108-000 |

Documentation

| Additional Information |
|---|
| Technical Section 03.04.2019 pdf 2027.26 KB |

CAD/CAE-Data

| CAD data |
|---------------------------------|
| 2D/3D Models 231-365/108-000 |

| CAE data |
|---------------------------------|
| ZUKEN Portal 231-365/108-000 |

PCB Design

| |
|--|
| Symbol and Footprint via SamacSys 231-365/108-000 |
| Symbol and Footprint via Ultra Librarian 231-365/108-000 |

1 Compatible Products

1.1 System counterpart

1.1.1 Female connector/socket



Item No.: [231-305/107-000](#)

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 5-pole; Screw flange; orange

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

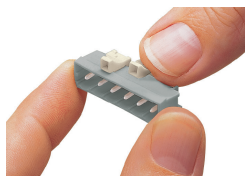


Item No.: [231-500](#)

Spacer; for formation of groups; light gray

Installation Notes

Coding



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