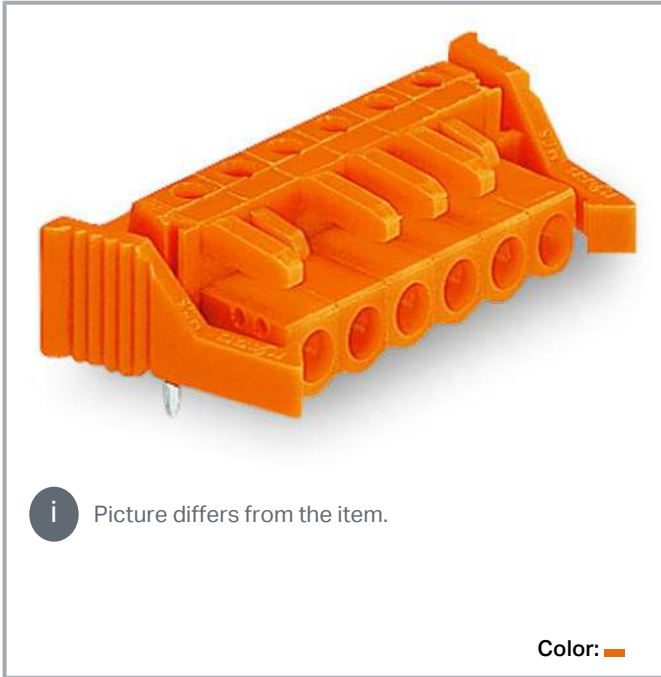


**Data sheet | Item number: 232-275/039-000**

THT female header; angled; Pin spacing 5.08 mm; 15-pole; Locking lever; 0.6 x 1.0 mm solder pin; orange



[www.wago.com/232-275\\_039-000](http://www.wago.com/232-275_039-000)



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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



Dimensions in mm

L = pole no. x pin spacing

Distance to first solder pin: 2.2 mm

2- to 3-pole female connectors – one latch only

### Item description

- Horizontal or vertical PCB mounting via straight or angled solder pins
- For board-to-board and board-to-wire connections
- Touch-proof PCB outputs
- Easy-to-identify PCB inputs and outputs
- With coding fingers

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



## 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  
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) $\hat{=}$ 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  |

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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## 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 | 15 |
| Number of connection types | 1  |
| Number of levels           | 1  |

## Connection 1

|                 |    |
|-----------------|----|
| Number of poles | 15 |
|-----------------|----|

## Physical data

|                                      |                          |
|--------------------------------------|--------------------------|
| Pin spacing                          | 5.08 mm / 0.2 inch       |
| Width                                | 92 mm / 3.622 inch       |
| Height                               | 16.6 mm / 0.654 inch     |
| Height from the surface              | 11.6 mm / 0.457 inch     |
| Depth                                | 18.25 mm / 0.719 inch    |
| Solder pin length                    | 5 mm                     |
| Solder pin dimensions                | 0.6 x 1 mm               |
| Drilled hole diameter with tolerance | 1.3 <sup>(+0.1)</sup> mm |

## Plug-in connection

|                                    |               |
|------------------------------------|---------------|
| Contact type (pluggable connector) | Female header |
| Connector (connection type)        | for PCB       |
| Mismating protection               | No            |
| Mating direction to the PCB        | 0°            |
| Locking of plug-in connection      | locking lever |

## PCB contact

|                        |  |
|------------------------|--|
| PCB Contact            | THT  |
| Solder pin arrangement | over the entire female connector (in-line) |

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

|                                     |   |
|-------------------------------------|---|
| Number of solder pins per potential | 1 |
|-------------------------------------|---|

### Material data

|                             |                  |
|-----------------------------|------------------|
| Color                       | orange           |
| Material group              | I                |
| Insulation material         | Polyamide (PA66) |
| Flammability class per UL94 | V0               |
| Contact material            | Copper alloy     |
| Contact plating             | tin-plated       |
| Fire load                   | 0.239 MJ         |
| Weight                      | 13.9 g           |

### Environmental requirements




|                         |                |
|-------------------------|----------------|
| Limit temperature range | -60 ... +85 °C |
|-------------------------|----------------|

### Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 25 Stück      |
| Packaging type        | box           |
| Country of origin     | DE            |
| GTIN                  | 4050821689454 |
| Customs tariff number | 85366990990   |

### Approvals / Certificates

#### Ship Approvals

| Logo  | Approval  | Additional Approval Text | Certificate name          |
|---|---|--------------------------|---------------------------|
|   | <b>ABS</b><br>American Bureau of Shipping               | -                        | 19-<br>HG15869876-<br>PDA |
|  | <b>BV</b><br>Bureau Veritas S.A.                        | IEC 60998                | 11915/D0 BV               |
|  | <b>DNV GL</b><br>Det Norske Veritas, Germanischer Lloyd | -                        | TAE 000016Z               |

#### UL-Approvals



Certificate

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

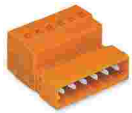
WAGO Corporation  
 Germantown, WI 53022  
 Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
 Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
 We are always happy to take your call at +49 (571) 887-44222.



| Logo   | Approval                             | Additional Approval Text | name   |
|--|--------------------------------------|--------------------------|--------|
|  | UL<br>UL International Germany GmbH  | UL 1977                  | E45171 |
|  | UR<br>Underwriters Laboratories Inc. | UL 1059                  | E45172 |

### Counterpart



**Item no.231-645**  
Male connector; 15-pole; Pin spacing 5.08 mm ; orange

[www.wago.com/231-645](http://www.wago.com/231-645)

### Optional accessories

#### Testing accessories

Testing accessories



**Item no.: 231-661**  
Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm<sup>2</sup>; light gray

[www.wago.com/231-661](http://www.wago.com/231-661)

### Downloads

#### Documentation

##### Additional Information

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

### CAD files

#### CAD data

|                              |     |          |
|------------------------------|-----|----------|
| 2D/3D Models 232-275/039-000 | URL | Download |
|------------------------------|-----|----------|

#### PCB Design

|                                      |     |          |
|--------------------------------------|-----|----------|
| Symbol and Footprint 232-275/039-000 | URL | Download |
|--------------------------------------|-----|----------|

CAX data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

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

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



**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

---

**CAE data**

|                              |                     |                          |
|------------------------------|---------------------|--------------------------|
| ZUKEN Portal 232-275/039-000 | <a href="#">URL</a> | <a href="#">Download</a> |
|------------------------------|---------------------|--------------------------|

---

**Environmental Product Compliance**

**Compliance Search**

|   |                     |                          |
|---|---------------------|--------------------------|
| Environmental Product Compliance 232-275/039-000<br>THT female header; angled; Pin spacing 5.08 mm; 15-pole; Locking lever; 0.6 x 1.0 mm solder pin; orange | <a href="#">URL</a> | <a href="#">Download</a> |
|---|---------------------|--------------------------|

---

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

---

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.



## Installation Notes

## Product family

**MCS MIDI Classic**

[Show all products from the family](#)

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

---

WAGO Corporation  
Germantown, WI 53022  
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222  
Email: [info.us@wago.com](mailto:info.us@wago.com) | Web: [www.wago.us](http://www.wago.us)

Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.