

**Data sheet | Item number: 231-341/001-000**

Male header; 11-pole; THT; 1.0 x 1.0 mm solder pin; straight; pin spacing 5.08 mm; orange

[www.wago.com/231-341\\_001-000](http://www.wago.com/231-341_001-000)



**i** Picture differs from the item.

Color: 



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.



## 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	11
Number of connection types	1
Number of levels	1

### Connection 1

Number of poles	11
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### Physical data

Pin spacing	5.08 mm / 0.2 inch
Width	59 mm / 2.323 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	orange
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	0.064 MJ
Weight	3.5 g

## Environmental requirements



Limit temperature range	-60 ... +100 °C
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## Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	100 Stück
Packaging type	box
Country of origin	PL
GTIN	4044918865593
Customs tariff number	8536694040


## Approvals / Certificates

### Country specific Approvals



Logo	Approval	Additional Approval Text	Certificate name
	<b>CB</b> DEKRA Certification B.V.	IEC 61984	NL-39756
	<b>CSA</b> DEKRA Certification B.V.	C22.2	1466354
	<b>KEMA/KEUR</b> DEKRA Certification B.V.	EN 61984	2190761.01

### Ship Approvals









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

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

**UL-Approvals**

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> UL International Germany GmbH	UL 1977	E45171
	<b>UR</b> Underwriters Laboratories Inc.	UL 1059	E45172

**Counterpart**

	<b>Item no.231-311/026-000</b> 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; 2,50 mm²; orange	<a href="http://www.wago.com/231-311/026-000">www.wago.com/231-311/026-000</a>
	<b>Item no.231-2311/026-000</b> 2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; with integrated end plate; 2,50 mm²; orange	<a href="http://www.wago.com/231-2311/026-000">www.wago.com/231-2311/026-000</a>
	<b>Item no.231-2311/037-000</b> 2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; Lateral locking levers; 2,50 mm²; orange	<a href="http://www.wago.com/231-2311/037-000">www.wago.com/231-2311/037-000</a>
	<b>Item no.2231-311/026-000</b> Female plug; 11-pole; push-button; 12 AWG max; pin spacing 5.08 mm; 1-conductor per pole; orange	<a href="http://www.wago.com/2231-311/026-000">www.wago.com/2231-311/026-000</a>
	<b>Item no.2231-311/031-000</b> Female plug; 11-pole; push-button; mounting flange; 12 AWG max; pin spacing 5.08 mm; 1-conductor per pole; orange	<a href="http://www.wago.com/2231-311/031-000">www.wago.com/2231-311/031-000</a>
	<b>Item no.2231-311/037-000</b> Female plug; 11-pole; push-button; locking lever; 12 AWG max; pin spacing 5.08 mm; 1-conductor per pole; orange	<a href="http://www.wago.com/2231-311/037-000">www.wago.com/2231-311/037-000</a>
	<b>Item no.231-311/027-000</b> 1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; clamping collar; 2,50 mm²; orange	<a href="http://www.wago.com/231-311/027-000">www.wago.com/231-311/027-000</a>
	<b>Item no.2231-311/102-000</b>	<a href="http://www.wago.com/2231-311/102-000">www.wago.com/2231-311/102-000</a>

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



Female plug; 11-pole; push-button; with integrated end plate; 12 AWG max; pin spacing 5.08 mm; 1-conductor per pole; orange /102-000



**Item no.231-311/037-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; Lateral locking levers; 2,50 mm²; orange

[www.wago.com/231-311/037-000](http://www.wago.com/231-311/037-000)



**Item no.231-311/031-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; clamping collar; 2,50 mm²; orange

[www.wago.com/231-311/031-000](http://www.wago.com/231-311/031-000)



**Item no.231-311/037-047/035-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; Lateral locking levers; Strain relief plate; direct marking; 2,50 mm²; orange

[www.wago.com/231-311/037-047/035-000](http://www.wago.com/231-311/037-047/035-000)



**Item no.231-311/102-000**

1-conductor female connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; with integrated end plate; 2,50 mm²; orange

[www.wago.com/231-311/102-000](http://www.wago.com/231-311/102-000)



**Item no.232-311/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; 2,50 mm²; orange

[www.wago.com/232-311/026-000](http://www.wago.com/232-311/026-000)



**Item no.232-411/026-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; 2,50 mm²; orange

[www.wago.com/232-411/026-000](http://www.wago.com/232-411/026-000)



**Item no.232-411/026-000/035-000**

1-conductor female connector, angled; CAGE CLAMP®; 2.5 mm²; Pin spacing 5.08 mm; 11-pole; Strain relief plate; 2,50 mm²; orange

[www.wago.com/232-411/026-000/035-000](http://www.wago.com/232-411/026-000/035-000)

**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  
2.0 MB

Download

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



## CAD files

### CAD data

2D/3D Models 231-341/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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### CAE data

EPLAN Data Portal 231-341/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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ZUKEN Portal 231-341/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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EPLAN Data Portal 231-341/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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### PCB Design

Symbol and Footprint 231-341/001-000	<a href="#">URL</a>	<a href="#">Download</a>
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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

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



- 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 231-341/001-000

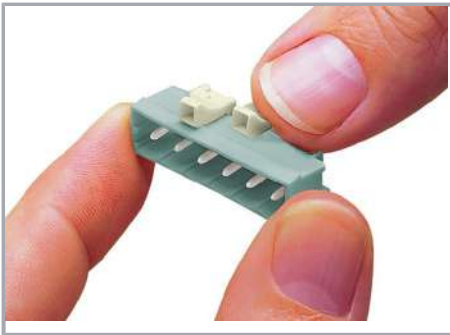
[URL](#)

[Download](#)

THT male header; 1.0 x 1.0 mm solder pin; straight; Pin spacing 5.08 mm; 11-pole; orange

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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](#)

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