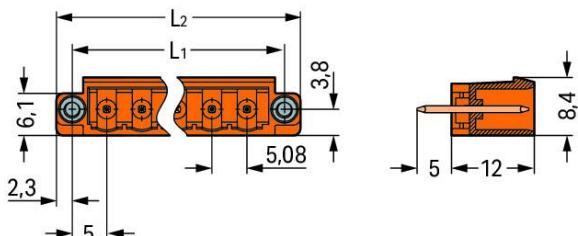


Picture differs from the item.

Color: —



Dimensions in mm

$$L_1 = (\text{pole no.} \times \text{pin spacing}) + 5.4 \text{ mm}$$

$$L_2 = (\text{pole no.} \times \text{pin spacing}) + 10 \text{ mm}$$

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

WAGO GmbH & Co. KG

Hansastr. 27

32423 Minden

Phone: +49 571 887-0 | Fax: +49 571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

#### Derating Curve

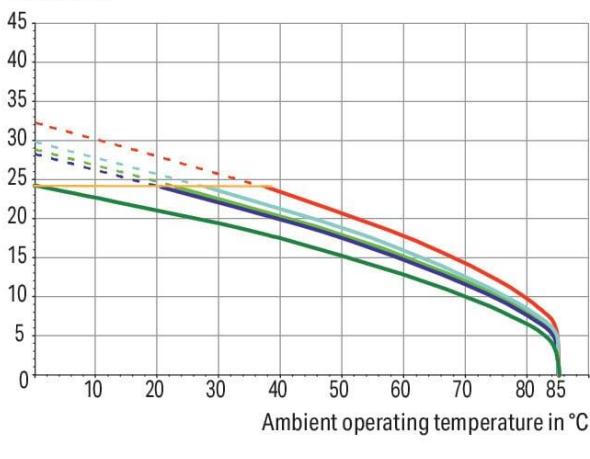
1-conductor female connector (231-102/026-000) with

THT male header (231-462/001-000)

Pin spacing: 5 mm / Conductor cross-section: 2.5 mm<sup>2</sup> "f-st"

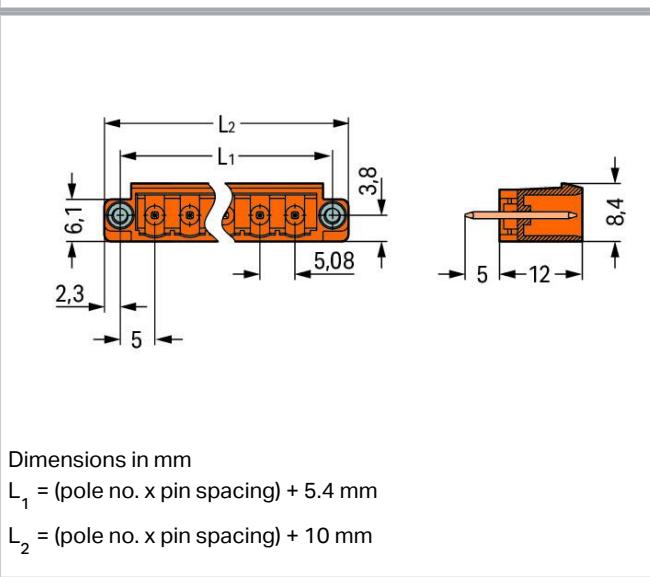
Based on: EN 60512-5-2 / Reduction factor: 0.8

Current in A



2-, 4-, 6-, 12-, 24-pole

— Conductor rated current



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

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

Ratings per	IEC/EN 60664-1
Nominal voltage (III/3)	320 V
Rated impulse voltage (III/3)	4 kV
Rated voltage (III/2)	320 V
Rated impulse 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

### Ratings per UL

Approvals per	UL 1059
Rated voltage UL (Use Group B)	300 V
Rated current UL (Use Group B)	10 A

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

Rated voltage UL (Use Group D)	300 V
Rated current UL (Use Group D)	10 A

### Ratings per UL 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	10 A

### Ratings per CSA

Approvals per	CSA
Rated voltage CSA (Use Group B)	300 V
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	3
Number of connection types	1
Number of levels	1

### Connection 1

Pole number	3
-------------	---

### Physical data

Pin spacing	5.08 mm / 0.2 inches
Width	25.24 mm / 0.994 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 <sup>(+0.1)</sup> mm

### Mechanical Data

Variable coding	Yes
Anti-rotation protection	Yes

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

## Plug-in connection

Contact type (pluggable connector)	Male connector/plug
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	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	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Electrolytic copper (E <sub>Cu</sub> )
Contact plating	Tin
Fire load	0.032 MJ
Weight	1.8 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

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

PU (SPU)	200 pcs
Packaging type	box
Country of origin	PL
GTIN	4044918865289
Customs tariff number	85366930000

## Environmental Product Compliance

CAS-No.	7439-92-1
REACH Candidate List Substance	Lead
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c)
SCIP notification number (Austria)	f8133388-6054-41a6-a3e3-3ba0a90f6ea1
SCIP notification number (Belgium)	2b292ab8-9709-4e7f-b2d3-2f17d4126009
SCIP notification number (Bulgaria)	da1c7e66-d92f-4fb3-b28d-6f3f6b078fb9
SCIP notification number (Czech Republic)	945de43f-2cd6-4a7e-8e54-ecc37001c22b
SCIP notification number (Denmark)	46c0d8d3-4f73-4af6-af55-63808da0fefe
SCIP notification number (Finland)	1cd1d328-c49a-4fd4-a5ff-91cd7d3d31fb
SCIP notification number (France)	b9960edd-746f-47ff-9bc9-d48b59598599
SCIP notification number (Germany)	c95ab9bb-8a5b-44c2-bbfa-3c12cd3421cd
SCIP notification number (Hungary)	29666462-9543-4101-b935-1ab30d87d043
SCIP notification number (Italy)	c78f5158-15b2-465d-92c3-1c4f7e7efd26
SCIP notification number (Netherlands)	54f300dd-1b0d-4151-a778-8b257897800b
SCIP notification number (Poland)	eac0d781-89af-4ddb-81b8-ae51749c8c6c
SCIP notification number (Romania)	0be05d0f-9d15-42dd-92cb-7734f1f3506c
SCIP notification number (Sweden)	23ada34e-4b9c-4518-b6bb-0d9bcc5dc55

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	CB DEKRA Certification B.V.	IEC 61984	NL-39756 /A1
	CSA DEKRA Certification B.V.	C22.2	1466354
KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 121453	

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



	UL UL International Germany GmbH	UL 1977	E45171
--	-------------------------------------	---------	--------

	UR Underwriters Laboratories Inc.	UL 1059	E45172
--	--------------------------------------	---------	--------

#### Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	Railway WAGO GmbH & Co. KG	-	Railway Ready

#### Counterpart

	Item no. 231-303/107-000 1-conductor female connector; CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 5.08 mm; 3-pole; Screw flange; 2,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/231-303/107-000">www.wago.com/231-303/107-000</a>
	Item no. 231-2304/107-000 2-conductor female connector; Push-in CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 5.08 mm; 4-pole; Screw flange; 2,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/231-2304/107-000">www.wago.com/231-2304/107-000</a>
	Item no. 2231-303/107-000 1-conductor female connector; push-button; Push-in CAGE CLAMP®; 2.5 mm <sup>2</sup> ; Pin spacing 5.08 mm; 3-pole; Screw flange; 2,50 mm <sup>2</sup> ; orange	<a href="http://www.wago.com/2231-303/107-000">www.wago.com/2231-303/107-000</a>

#### Optional accessories

<b>Coding</b>		
Intermediate plate		
	Item no.: 231-500 Spacer; for formation of groups; light gray	<a href="http://www.wago.com/231-500">www.wago.com/231-500</a>
<b>Coding</b>		
	Item no.: 231-129 Coding key; snap-on type; light gray	<a href="http://www.wago.com/231-129">www.wago.com/231-129</a>

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

## Downloads

### Documentation

#### Additional Information

2019 Apr 3

pdf  
2.1 MB

Download

## CAD/CAE-Data

### CAE data

EPLAN Data Portal 231-333/108-000	URL	Download
-----------------------------------	-----	----------

ZUKEN Portal 231-333/108-000	URL	Download
------------------------------	-----	----------

EPLAN Data Portal 231-333/108-000	URL	Download
-----------------------------------	-----	----------

### PCB Design

Symbol and Footprint via Ultra Librarian 231-333/108-000	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.

Supported formats:

- Accel EDA 14 & 15
- Altair
- Altium 6 to current version
- Autodesk Fusion 360
- 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

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

- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

#### PCB Component Libraries (EDA), PCB CAD Library Ultra Librarian

Symbol and Footprint via SamacSys 231-333/108-000

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.

Supported formats:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000
- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix

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

- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

#### CAD data

2D/3D Models 231-333/108-000	<a href="#">URL</a>	<a href="#">Download</a>
------------------------------	---------------------	--------------------------

#### Asset Administration Shell

Asset Administration Shell 231-333/108-000	<a href="#">URL</a>	<a href="#">Download</a>
--	---------------------	--------------------------

#### Environmental Product Compliance

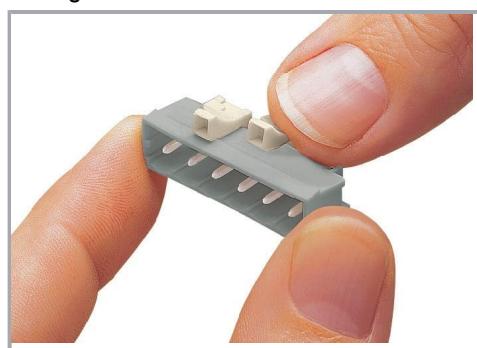
##### Compliance Search

Environmental Product Compliance 231-333/108-000	<a href="#">URL</a>	<a href="#">Download</a>
--	---------------------	--------------------------

THT male header; 1.0 x 1.0 mm solder pin; straight; Threaded flange; Pin spacing 5.08 mm; 3-pole; orange

#### Installation Notes

##### Coding



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

#### Product family

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

**MCS MIDI Classic**

[Show all products from the family](#)

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

---

WAGO GmbH & Co. KG

Hansastraße 27

32423 Minden

Phone: +49 571 887-0 | Fax: +49 571 887-169

Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

Do you have any questions about our products?

We are always happy to take your call at +49 (571) 887-44222.