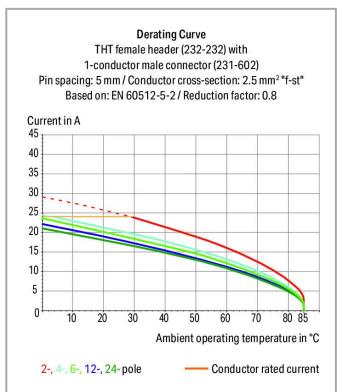
THT female header; angled; Pin spacing 5 mm; 8-pole; 0.6 x 1.0 mm solder pin; gray



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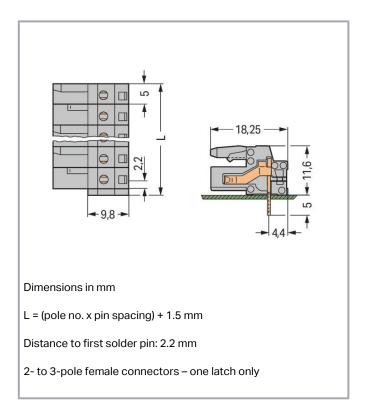
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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#### 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

# 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

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

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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) ≙ Overvoltage category III / Pollution degree 2

# Ratings per UL 1059

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 1977

Rated voltage (UL 1977)	600 V
Rated current UL 1977	15 A

# Ratings per CSA

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 8

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Number of connection types	1
Number of levels	1

#### Connection 1

Pole number 8

# Physical data

Pin spacing	5 mm / 0.197 inches
Width	41.5 mm / 1.634 inches
Height	16.6 mm / 0.654 inches
Height from the surface	11.6 mm / 0.457 inches
Depth	18.25 mm / 0.719 inches
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

#### **Mechanical Data**

Variable coding	Yes
Anti-rotation protection	Yes

# Plug-in connection

Contact type (pluggable connector)	Female connector/socket
Connector (connection type)	for PCB
Mismating protection	No
Plugging without loss of pin spacing	No
Mating direction to the PCB	0°
Locking of plug-in connection	none

#### **PCB** contact

PCB contact	ТНТ
Solder pin arrangement	over the entire female connector (in-line)
Number of solder pins per potential	1

#### **Material Data**

Note (material data)

Information on material specifications can be found here

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Color	gray	
Material group	I	
Insulation material	Polyamide (PA66)	
Flammability class per UL94	VO	
Contact material	Copper alloy	
Contact plating	Tin	
Fire load	0.175 MJ	
Weight	7.4 g	

#### **Environmental requirements**

Limit temperature range	-60 +85 °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)	50 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918579193
Customs tariff number	85366990990

# **Environmental Product Compliance**

Notice distriction	RoHS Compliance Status	Compliant, No Exemption	
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#### Counterpart



Item no.231-608

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; 2,50 mm²; gray

www.wago.com/231-608

Item no.231-608/019-000

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www.wago.com/232-238





1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 8-pole; clamping collar; 2,50 mm²; gray

www.wago.com/231-608/019-000

#### Optional accessories

#### Testing and measuring

Testing accessories



Item no.: 231-661

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm $^{2}$ ; light gray

www.wago.com/231-661

# Downloads Documentation

# Additional Information

Technical Section
Technical explanations

2019 Apr 3

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CAD/CAE-Data

**CAD** data

2D/3D Models 232-238

URL

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**CAE** data

EPLAN Data Portal 232-238

URL

Download

ZUKEN Portal 232-238

URL

Download

**PCB** Design

Symbol and Footprint 232-238

**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
- Altium 6 to current version
- Cadence Allegro

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- 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

#### **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 232-238

URL

Download

THT female header; angled; Pin spacing 5 mm; 8-pole; 0.6 x 1.0 mm solder pin; gray

#### **Installation Notes**

#### **Product family**

MCS MIDI Classic

Show all products from the family

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