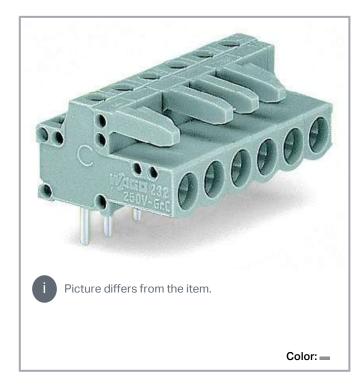
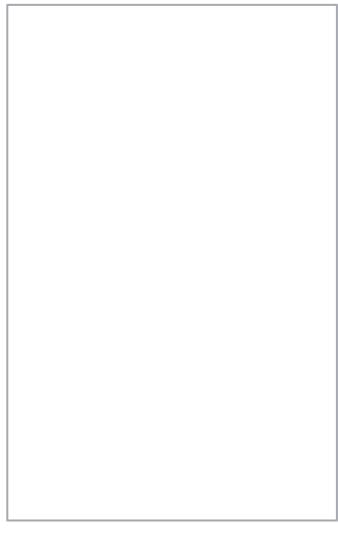
THT female header; angled; Pin spacing 5 mm; 5-pole; 0.6 x 1.0 mm solder pin; gray



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

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<b>-</b> :			
Dimen	einne	ın	mm
	1310113		

L = (pole no. x pin spacing) + 1.5 mm

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

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

WAGO Corporation Germantown, WI 53022

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# 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) ≙ 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

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

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# **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	5
Number of connection types	1
Number of levels	1

## **Connection 1**

## Physical data

Pin spacing	5 mm / 0.197 inch
Width	26.5 mm / 1.043 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	Without

### **PCB** contact

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

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Number of solder pins per potential

#### Material data

Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Contact material	Copper alloy
Contact plating	tin-plated
Fire load	0.083 MJ
Weight	4.7 g

## **Environmental requirements**

Limit temperature range	-60 +85 ℃	
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#### Commercial data

Product Group	3 (Multi Conn. System)
PU (SPU)	100 Stück
Packaging type	box
Country of origin	DE
GTIN	4044918579148
Customs tariff number	8536694040

### Counterpart



Item no.231-605 Male connector; 5-pole; Pin spacing 5 mm; gray

www.wago.com/231-605



Item no.231-605/019-000

Male connector; 5-pole; Pin spacing 5 mm; mounting flange; gray

www.wago.com/231-605/019-000

## 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

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

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# **Downloads Documentation**

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**CAD files** 

**CAD** data

2D/3D Models 232-235 **URL** Download

**CAE** data

EPLAN Data Portal 232-235 **URL** Download

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**PCB** Design

URL Symbol and Footprint 232-235

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

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- 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 232-235** 

URL

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THT female header; angled; Pin spacing 5 mm; 5-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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