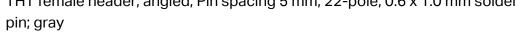
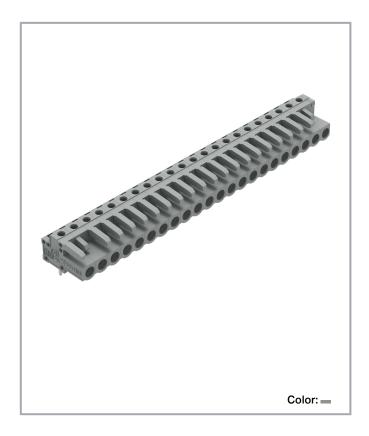
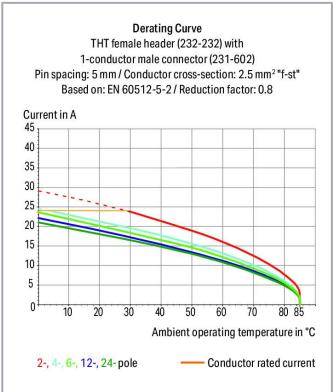
THT female header; angled; Pin spacing 5 mm; 22-pole; 0.6 x 1.0 mm solder



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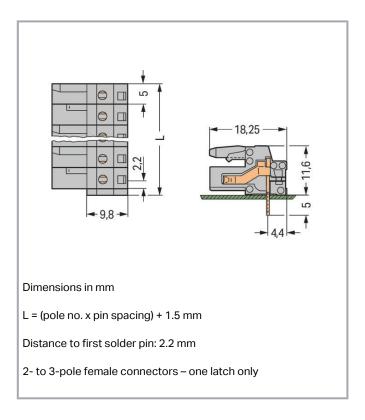
Subject to changes. Please also observe the further product documentation!

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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

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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

number of potentials	າາ

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Number of connection types	1
Number of levels	1

Connection 1

Pole number 22

Physical data

Pin spacing	5 mm / 0.197 inches
Width	111.5 mm / 4.39 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 ^(+0.1) 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

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

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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	0.469 MJ	
Weight	20.3 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)	10 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918579407
Customs tariff number	85366990990

Environmental Product Compliance

Approvals / Certificates

General approvals

	A	A LIBERTAL AND LATER A	Certificate
Logo	Approval	Additional Approval Text	name
	СВ	IEC 61984	NL-39756
	DEKRA Certification B.V.		/A1
	CSA	C22.2	1466354
	DEKRA Certification B.V.		

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

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KEMA	KEMA/KEUR DEKRA Certification B.V.	EN 61984	71- 121453
71 °	UL Underwriters Laboratories Inc.	UL 1059	E45172
	UR Underwriters Laboratories Inc.	UL 1977	E45171

Declaration	is of conformity and manufacturer's declarati	ons	
			Certificate
Logo	Approval	Additional Approval Text	name
	Railway	-	Railway
RAILWAY	WAGO GmbH & Co. KG		Ready

Approvals for marine applications				
			Certificate	
Logo	Approval	Additional Approval Text	name	
	LR	IEC 61984	96/20035	
	Lloyds Register		(E5)	

Counterpart



Item no.231-622

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 22-pole; 2,50 mm²; gray

www.wago.com/231-622



Item no.231-622/019-000

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 22-pole; clamping collar; 2,50 mm²; gray

www.wago.com/231-622/019-000

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

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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 mm²; light gray

www.wago.com/231-661

URL

Download

Downloads

Documentation

Additional Information

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.0 MB	

CAD/CAE-Data

2D/3D Models 232-252

CAD data

CAE data		
EPLAN Data Portal 232-252	URL	Download
ZUKEN Portal 232-252	URL	Download

PCB Design

Symbol and Footprint 232-252 URL Download CAx data for your PCB design, consisting of "schematic symbols and PCB footprints",

Supported formats:

- Accel EDA 14 & 15
- Altium 6 to current version
- Cadence Allegro
- DesignSpark
- Eagle Libraries
- KiCad
- Mentor Graphics BoardStation
- Mentor Graphics Design Architect

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allow easy integration of the WAGO component into your development environment.

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- 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 232-252

URL

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THT female header; angled; Pin spacing 5 mm; 22-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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