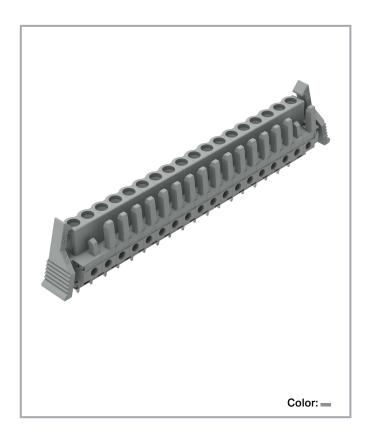
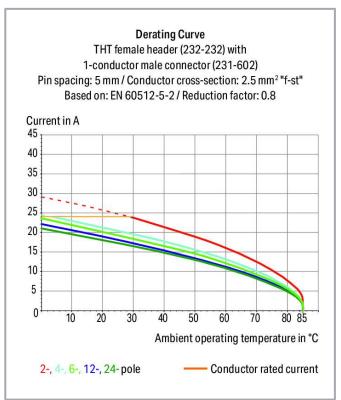
THT female header; straight; Pin spacing 5 mm; 18-pole; Locking lever; 0.6 x

1.0 mm solder pin; gray

www.wago.com/232-148/039-000







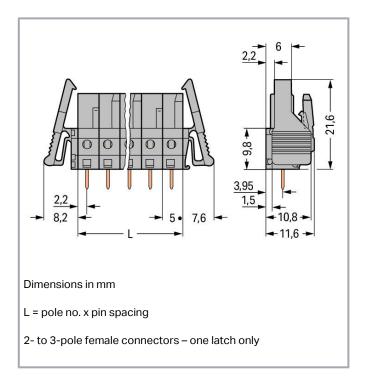
Subject to changes. Please also observe the further product documentation!

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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

Safety information

Data Notes

	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/.

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

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The MCS - MULTI CONNECTION SYSTEM includes connectors



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	18
Number of connection types	1
Number of levels	1

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

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Connection 1

Pole number 18	
----------------	--

Physical data

Pin spacing	5 mm / 0.197 inches
Width	105.8 mm / 4.165 inches
Height	26.6 mm / 1.047 inches
Height from the surface	21.6 mm / 0.85 inches
Depth	11.6 mm / 0.457 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	90 °
Locking of plug-in connection	locking lever

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
Color	gray

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Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.504 MJ
Weight	17.5 g

Environmental requirements

Limit temperature range	-60 +85 ℃
Processing temperature	-35 +60 °C

Commercial data

27-44-04-02
27-44-04-02
EC002637
EC002637
10 pcs
box
DE
4055143453370
85366990990

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
Logo	Approvai	Αυαιτιστίαι Αρρί Οναι Τέλτ	Tiame
RAILWAY READY	Railway WAGO GmbH & Co. KG	-	Railway Ready

Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name

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BV Bureau Veritas S.A. IEC 60998

11915/D0 BV

Counterpart



Item no.231-618

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 18-pole; 2,50 mm²; gray

www.wago.com/231-618

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

Downloads

Documentation

Additional Information

Technical Section 2019 Apr 3 pdf Download Technical explanations 2.0 MB

CAD/CAE-Data

CAD data

2D/3D Models 232-148/039-000 URL Download

PCB Design

Symbol and Footprint 232-148/039-000

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
- Altium 6 to current version

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- 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
- Zuken CadStar 3 and 4
- Zuken CR-5000 and CR-8000

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

CAE data

ZUKEN Portal 232-148/039-000 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 232-148/039-000

THT female header; straight; Pin spacing 5 mm; 18-pole; Locking lever; 0.6 x 1.0 mm

solder pin; gray

Installation Notes

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URL

Download

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Product family

MCS MIDI Classic Show all products from the family

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

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