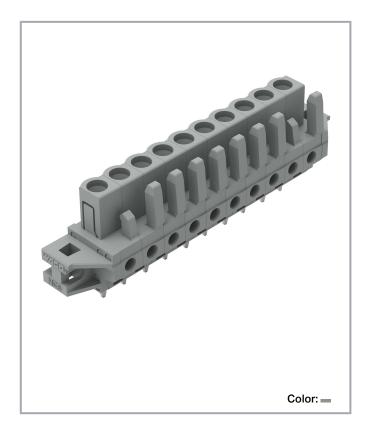
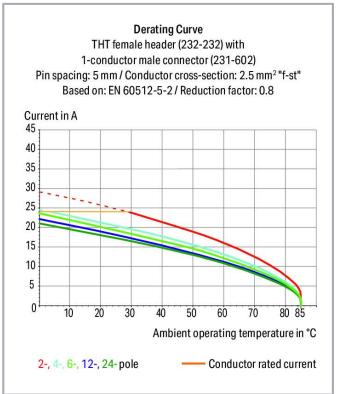
THT female header; straight; Pin spacing 5 mm; 10-pole; clamping collar; 0.6

x 1.0 mm solder pin; gray

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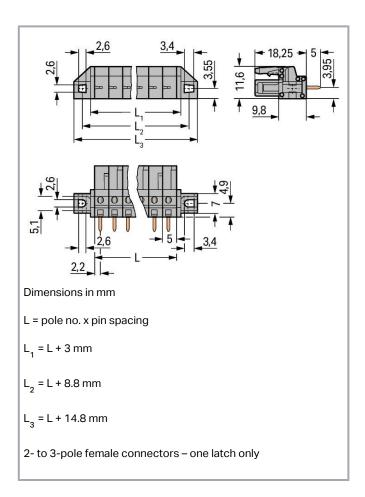
 $\label{thm:continuity} \textbf{Subject to changes. Please also observe the further product documentation!}$

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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

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	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) ≙ 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

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

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Connection data

Total number of potentials	10
Number of connection types	1
Number of levels	1

Connection 1

Pole number 10

Physical data

Pin spacing	5 mm / 0.197 inches
Width	64.8 mm / 2.551 inches
Height	23.25 mm / 0.915 inches
Height from the surface	18.25 mm / 0.719 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
Mounting type	Mounting flange
Mounting type	Feed-through mounting Panel mounting
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	none

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PCB contact

PCB contact	THT
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
Material group	1
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.241 MJ
Weight	9.8 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)	25 pcs
Packaging type	box
Country of origin	DE
GTIN	4044918623421
Customs tariff number	85366990990

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Cortificato

Cortificato

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals

				Certificate
Logo		Approval	Additional Approval Text	name
		UR	UL 1977	E45171
	8	Underwriters Laboratories Inc.		

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	name
	Railway WAGO GmbH & Co. KG	-	Railway
RAILWAY	WAGO GIIIDH & CO. NG		Ready

Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
ABS.	ABS American Bureau of Shipping	_	19- HG15869876- PDA
	BV Bureau Veritas S.A.	IEC 60998	11915/D0 BV

Counterpart



Item no.231-610

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; 2,50 mm²; gray

www.wago.com/231-610

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www.wago.com/231-661

Optional accessories

Mounting			
Mounting a	ccessories		
	Item no.: 209-147 Self-tapping screw	www.wago.com/209-147	
	Item no.: 231-194 Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø	www.wago.com/231-194	
100	Item no.: 231-195 Screw with nut; M2x12; for fixing element	www.wago.com/231-195	
1000	Item no.: 231-295 Screw with nut	www.wago.com/231-295	
Testing and r	Testing and measuring		
Testing acc	essories		
0	Item no.: 210-136 Test plug; 2 mm Ø; with 500 mm cable; red	www.wago.com/210-136	

Downloads Documentation

Additional Information

Item no.: 231-661

Technical Section	2019 Apr 3	pdf	Download
Technical explanations		2.0 MB	

Test plugs for female connectors; for 5 mm and 5.08 mm pin spacing; 2,50 mm²; light gray

CAD/CAE-Data

CAE data

EPLAN Data Portal 232-140/031-000	URL	Download
EPLAN Data Portal 232-140/031-000	URL	Download
ZUKEN Portal 232-140/031-000	URL	Download

PCB Design

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URL

Symbol and Footprint 232-140/031-000

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
- 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

CAD data

2D/3D Models 232-140/031-000 URL Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 232-140/031-000

URL

Download

THT female header; straight; Pin spacing 5 mm; 10-pole; clamping collar; 0.6 x 1.0 mm

solder pin; gray

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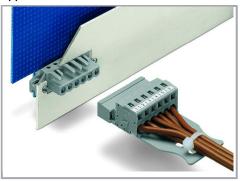
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Installation Notes

Application



The innovative flange design provides standard panel mounting options or various through-panel mounting configurations. Depending on the type of application and flange, female headers can be used either for through-panel or flush mounted applications.

Product family

MCS MIDI Classic Show all products from the family

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