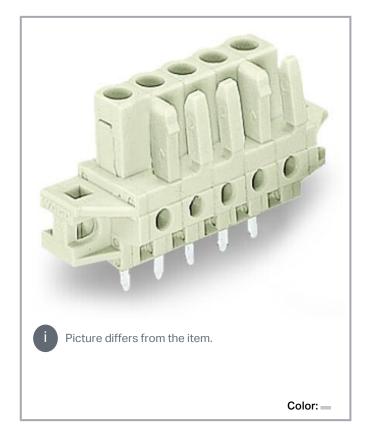
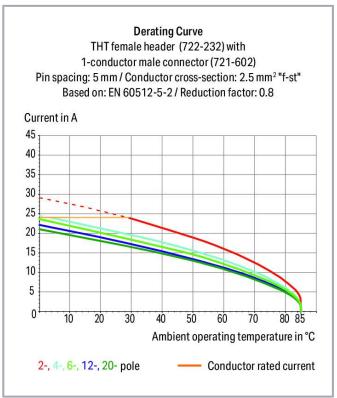
THT female header; straight; Pin spacing 5 mm; 10-pole; 100% protected against mismating; clamping collar;  $0.6 \times 1.0 \text{ mm}$  solder pin; light gray



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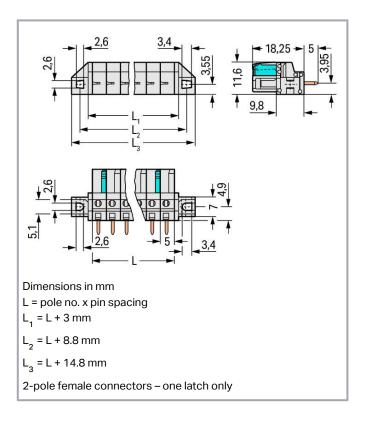
 $\label{thm:condition} \textbf{Subject to changes. Please also observe the further product documentation!}$ 

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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
- 100 % protected against mismating
- 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

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

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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

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

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

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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 <sup>(±0.1)</sup> 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	Yes
Plugging without loss of pin spacing	No
Mating direction to the PCB	90 °
Locking of plug-in connection	none

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

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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	light gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	VO
Contact material	Copper alloy
Contact plating	Tin
Fire load	0.172 MJ
Weight	9.9 g

# **Environmental requirements**

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

#### Commercial data

3 (Multi Conn. System)
27-44-04-02
27-44-04-02
EC002637
EC002637
NO DATA
25 pcs
box
DE
4045454025397
85366990990

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

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### **Environmental Product Compliance**

RoHS Compliance Status Compliant, No Exemption

# Approvals / Certificates

#### General approvals

Logo	Approval	Additional Approval Text	Certificate name
<b>(IP</b>	CSA DEKRA Certification B.V.	C22.2	1466354
	UR Underwriters Laboratories Inc.	UL 1977	E45171

#### Declarations of conformity and manufacturer's declarations

			Certificate
Logo	Approval	Additional Approval Text	name
	Railway	-	Railway
RAILWAY READY	WAGO GmbH & Co. KG		Ready
RAILWAY READY			

### Approvals for marine applications

			Certificate
Logo	Approval	Additional Approval Text	name
Carried States	BV	IEC 60998	11915/D0
	Bureau Veritas S.A.		BV

# Counterpart



### Item no.721-610

1-conductor male connector; CAGE CLAMP®; 2.5 mm²; Pin spacing 5 mm; 10-pole; 100% protected against mismating; 2,50 mm²; light gray

www.wago.com /721-610

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#### Optional accessories

#### Testing and measuring

Testing accessories



Item no.: 210-136

Test plug; 2 mm Ø; with 500 mm cable; red

www.wago.com/210-136



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

#### Mounting

Mounting accessories



Item no.: 209-147

www.wago.com/209-147 Self-tapping screw



Item no.: 231-194

Self-tapping screw; B 2.2x13, fixing hole 1.8 mm Ø

www.wago.com/231-194



Item no.: 231-195

Screw with nut; M2x12; for fixing element

www.wago.com/231-195



Item no.: 231-295 Screw with nut

www.wago.com/231-295

# **Downloads**

#### **Documentation**

### **Additional Information**

**Technical Section** 2019年4月3日 pdf Download 2.1 MB Technical explanations

# CAD/CAE-Data

#### **PCB** Design

Symbol and Footprint via Ultra Librarian 722-140/031-000

CAx data for your PCB design, consisting of "schematic symbols and PCB footprints", allow easy integration of the WAGO component into your development environment.

**URL** Download

### Supported formats:

- Accel EDA 14 & 15
- Altair

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- Altium 6 to current version
- Autodesk Fusion 360
- 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
- Zuken eCADSTAR 2020 and 2021Zuken CR-5000 and CR-8000

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

Symbol and Footprint via SamacSys 722-140/031-000

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:

- 3D (stp)
- Altium
- CADSTAR
- Capture
- CircuitStudio
- CR-5000

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**URL** 

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- CR-8000
- DEHDL
- DesignSpark PCB
- DesignSpark PCB PRO
- DipTrace
- EAGLE
- Easy-PC
- EasyEDA
- eCADSTAR
- KiCad
- OrCAD\_Allegro16
- PADS
- Proteus
- Pulsonix
- Quadcept
- SOLIDWORKS PCB
- TARGET 3001!
- xDX Designer
- Xpedition

PCB Component Libraries (EDA), PCB CAD Library SamacSys Electronic Component Search Engine

#### **CAE** data

ZUKEN Portal 722-140/031-000	URL	Download
CAD data		
2D/3D Models 722-140/031-000	URL	Download
Asset Administration Shell		

#### Asset Auministration Shen

Asset Administration Shell 722-140/031-000 URL Download

#### **Environmental Product Compliance**

Compliance Search

Environmental Product Compliance 722-140/031-000 URL Download

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THT female header; straight; Pin spacing 5 mm; 10-pole; 100% protected against mismating; clamping collar; 0.6 x 1.0 mm solder pin; light gray

**Installation Notes** 

**Product family** 

MCS MIDI

Show all products from the family

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